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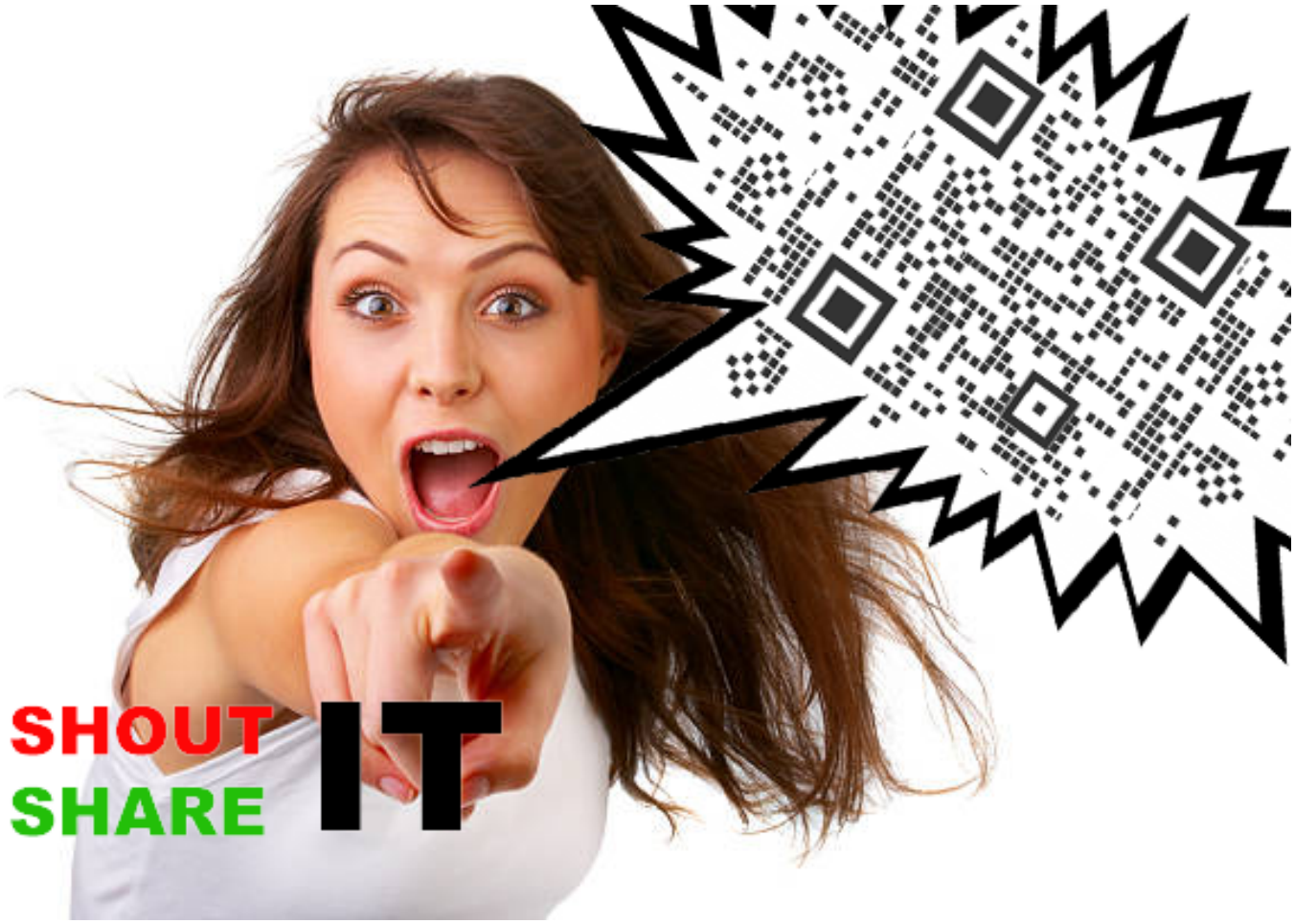
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U.S. DEPARTMENT OF AGRICULTURE

PESTICIDES DOCUMENTATION BULLETIN

Volume 5
November 28, 1969
Number 24

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

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Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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Hymenoptera, Insect identification, Pompilidae, Taxonomy.

14175-69
REMARKS CONCERNING SOME SPECIES OF WASPS (HYM. POMPILOIDAE (3.). (GE)
H Wolf
Deut Entomol Ges Mitt 20(2):27-32
15 Apr 1961 420 D482
Hymenoptera, Insect identification, Pompilidae, Taxonomy.

14176-69
CONCERNING SOME WEST GERMAN BEES AND DIGGER WASPS (HYM. APOIDEA, SPHECOIDEA). (GE)
H Wolf
Deut Entomol Ges Mitt 18(1):11-16 REF
15 Feb 1959 420 D482
Apoidea, Bees, Hymenoptera, Sphecidae, Taxonomy, Zoogeography.

PHYSIOLOGY AND BIOCHEMISTRY

14177-69
SLEEP IN MOTHS AND ITS DEPENDENCE ON THE FREQUENCY OF STIMULATION IN ANAGASTA KUEHNIELLA.
F S Andersen
Opusc Entomol 33(1-2):15-24
1968 421 OP7
Anagasta kuehniella, Demography, Insect migration, Insect physiology, Sleep.

14178-69
A CHANGE OF FEEDING HABIT IN ARCHIPS CERASIVORANA (FITCH) (LEPIDOPTERA, TORTRICIDAE).
C E Atwood
Entomol Soc Ontario Proc 97:115-116
1966 420 ON8
Archips cerasivoranus, Feeding, Food plants, Insect behavior, Prunus virginiana, Research.

14179-69
THE EFFECT OF SODIUM REPLACEMENT ON THE ELECTRORETINOGRAM RECORDED FROM THE COCKROACH OCELLUS.
M W Atwood
J Insect Physiol 15(10):1887-1896 REF
Oct 1969 421 J825
Blaberus craniifer, Choline, Electron microscopy, Electroretinograms, Insect physiology, Leaves, Nerves, Ocelli, Plant cytology, Plastids, Sodium, Sucrose, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

14180-69
USE OF A NON-ABSORBENT BARRIER IN REARING PUPAE.
C R B Baker
Entomologist (london) 102(1269):39
Feb 1969 421 EN8
Arctiidae, Humidity, Insect rearing equipment, Mortality.

A non-absorbent material is described for use in rearing Spilosoma lubricipeda and S. lutea. The material decreased the mortality of pupae by maintaining a constant humidity over a six month storage period.

14181-69
ULTRASTRUCTURAL MODIFICATIONS OF THE SECRETION CELLS OF THE PROTHORACIC GLAND TO THEMSELVES DURING THE LAST TWO LARVAL STAGES. I. THE CHONDRIOSOME, AND ITS RELATIONSHIP WITH THE GRANULAR RETICULUM. (FR)
J A Beaulaton
J Cell Biol 39(3):501-525 REF
Dec 1968 442.8 J828
Bombyx mori, Cytology, Dcoxyribonucleic acid, Glands (insects), Insect physiology, Mitochondria. English abstract

14182-69
CONTINUOUS AND RHYTHMIC REPRODUCTIVE CYCLE OBSERVED IN PERIPLANETA AMERICANA (L.).
W J Bell
Biol Bull 137(2):239-249 REF
Oct 1969 442.8 B52
Electrophoresis, Insect biochemistry, Insect biology, Oogenesis, Periplaneta americana, Proteins, Reproduction.

14183-69
DESIGN AND MAINTENANCE OF BEEHIVES.
F S Beneckc
Agr Gaz New S Wales 78(PT 4):214-220
Apr 1967 23 N472
Apiaries, Apiculture, Construction materials.

14184-69
ELECTRON MICROSCOPY OF SPINDLE-SHAPED INCLUSION VIRUSES OF COLEOPTERA. (FR)
M Bergoin G Devauchelle J-L Duthoit C Vago
Acad Sci Compt Rend Ser D Sci Nat 266(20, 1ST SEMESTER):2126-2128 REF
13 May 1968 505 P21
Coleoptera, Electron microscopy, Insect diseases, Scarabaeidae, Viruses.

14185-69
DNA-MEASUREMENTS IN INSECTS AND A HYPOTHESIS CONCERNING RETARDED EVOLUTION AND ESPECIALLY HIGH DNA CONTENT IN THE ANIMAL KINGDOM. (GER)
K Bier W Muller
Biol Zentralbl 88(4 JUL-AUG):425-449 REF
Aug 1969 442.8 B523
Animals, Deoxyribonucleic acid, Disease transmission, Evolution, Insect biochemistry, Insect physiology, Insect vectors, Onchocerciasis, Physiology, Simulium damnosum, Spectrophotometry.

14186-69
AZIRIDINYL CHEMOSTERILANTS FOR HOUSE FLIES.
A B Borkovec R L Fye G C LaBrecque
USDA Prod Res Rep (129):60P REF
Oct 1968 A281.9 AG8
Biological control (insects), Chemical control (insects), Chemical reactions, Chemosterilants, Ethylenimine, Musca domestica, Reproduction, Tables (data).

14187-69
SOME PHASE CHARACTERISTICS OF THE SOUTHERN AFRICAN FORM OF THE DESERT LOCUST (SCHISTOCERCA GREGARIA (FORSKAL)).
D H Botha
S Afr J Agr Sci 10(1):61-76 REF
Mar 1967 24 SU3
Insect behavior, Insect taxonomy, Schistocerca gregaria, Zoogeography.

14188-69
THE VIABILITY OF BROWN LOCUST EGGS (LOCUSTANA PARDALINA (WALKER)).
D H Botha
S Afr J Agr Sci 10(2):445-460
Jun 1967 24 SU3
Acrididae, Eggs, Environment, Insect ecology, Locustana pardalina, Mortality, Population.

14189-69
INSECT VISCERAL MUSCLE: NEURAL RELATIONS OF THE PROCTODEAL MUSCLES OF THE COCKROACH.
B E Brown T Nagai
J Insect Physiol 15(10):1767-1783 REF
Oct 1969 421 J825
Bacteriology, Brucellosis, Diagnosis, Electrophysiology, Insect physiology, Methodology, Muscles, Nerves, Periplaneta americana, Serological tests. English and Spanish abstracts.

14190-69
PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER. VI. THE TUMORIGENIC EFFECTS OF JUVENILE HORMONE-LIKE SUBSTANCES.
P J Bryant J H Sang J Kradel
Genetics 62(2):321-336 REF
Jun 1969 442.8 G28
Chromatophores, Drosophila melanogaster, Hormones, Insect genetics, Insect physiology, Methodology, Pesticide application, Soil fumigation, Tumor cells. English abstract.

14191-69
HISTOCHEMICAL DATA ON THE CARDIAC BODIES OF ANTHERAEA PERNYI GUER. (LEPIDOPTERA, ATTACIDAE) AND OF RHODNIUS PROLIXUS STAL. (HEMIPTERA, REDUVIIDAE). (FR)
M Busselet
Acad Sci Compt Rend Ser D Sci Nat 266(24, 1ST SEMESTER):2280-2282 REF
10 Jun 1968 505 P21
Antheraea pernyi, Dorsal vessel, Histochemistry, Insect physiology, Reduviidae.

14192-69
THE ULTRASTRUCTURE AND ELECTROPHYSIOLOGY OF THE MEMBRANOUS LOBE OF THE ANTENNA IN SPEOPHYES LUCIDULUS LARVAE (COLEOPTERA). (FR)
G Corbiere J Gervet
J Insect Physiol 15(10):1759-1765 REF
Oct 1969 421 J825
Antennae, Chemoreceptors, Coleoptera, Electron microscopy, Electrophysiology, Insect behavior, Insect nests, Larvae, Reproduction, Sphecidae. English abstract.

14193-69
A SEROLOGICAL COMPARISON OF SOME IRIDESCENT NON-OCCLUDED INSECT VIRUSES.
J C Cunningham T W Tinsley
J Gen Virol (3,PT 1):1-8 REF
Jul 1968 QR360.A1J6
Agar, Antigens, Galleria mellonella, Insect diseases, Pieris brassicae, Porthetria dispar, Sericesthis iridescent virus, Serological tests, Tipula iridescent virus.

14194-69
DESIGN OF HONEY HOUSES--CENTRAL AND MOBILE.
N A Cutts
Agr Gaz New S Wales 78(PT 10):570-575
Oct 1967 23 N472
Apiaries, Apiculture, Construction materials, Honey, Processing.

14195-69
EFFECT OF THE VENOM OF THE BLACK WIDOW SPIDER, LATRODECTUS MACTANS TREDECIMGUTTATUS, ON EVOKED ACTION POTENTIALS IN THE ISOLATED NERVE CORD OF PERIPLANETA AMERICANA.
V D'Ajello A Mauro S Bettini
Toxicon 7(2):139-144
Sep 1969 391.8 T66
Bio-electric potential, Insect physiology, Latrodectus mactans, Methodology, Nerves, Periplaneta americana, Pesticide application, Soil fumigation, Venoms. English abstract.

14196-69
ESSENTIALS IN PEST CONTROL.
B Y Deshpande
Pesticides 1(9):17-18
May 1968 SB951.P43
Agricultural education, Ecology, Insect biology, Insect pests, Insecticides, Livestock, Medical entomology, Plant pest control.

14197-69
INSECT HORMONES: OLIVE OIL IS NOT AN INERT VEHICLE FOR HORMONE INJECTION INTO LOCUSTS.
P E Ellis D B Carlisle
Science 162(3860):1393-1394 REF
20 Dec 1968 470 SCI2
Acrididae, Cells, Dosage, Hormones, Injections, Insect physiology, Olive oil, Research, Schistocerca gregaria.

14198-69
STUDIES ON A TREHALASE FROM A SYMBIONT OF THE TROPICAL COCKROACH, BLABERUS CRANIIFER--A SUGGESTED ANALYTICAL ENZYME.
F M Fisher R O McAlister
Biol Bull 137(2):265-276 REF
Oct 1969 442.8 B52
Blaberus craniifer, Enzymes, Insect biochemistry, Proteins, Trehalase.

14199-69
DEVELOPMENT AND DIAPAUSE IN INSECTS. (JA)
M Fukaya
Kontyu 35(3):221-230 REF
Sep 1967 421 K833
Deoxyribonucleic acid, Hormones, Insect genetics, Insect morphology, Insect physiology, Metamorphosis, Ribonucleic acid.

14200-69
EXPERIMENTS ON NUCLEAR TRANSPLANTATION IN DROSOPHILA MELANOGASTER. PRELIMINARY REPORT.
I Geyer-Duszynska
Rev Suisse Zool 74(3):614-615
Dec 1967 410 R324
Cell nucleus, Drosophila melanogaster, Insect cytology, Larvae.

14201-69
QUANTITATIVE ASPECTS OF INSECT NUTRITION.
H T Gordon
Amer Zool 8(1):131-138 REF
Feb 1968 410 AM3
Bioenergetics, Food consumption, Insect metabolism, Insect nutrition, Quantitative analysis.

The small size of insects is correlated with food consumption, growth and metabolic rates. Their high metabolic efficiency, short life cycle, high metabolic potential and rapid genetic adaptation and speciation is discussed.

14202-69
PLICTRAN MITICIDE-NEW APPROACH TO MITE CONTROL.
H E Gray
Down Earth 23(4):3-5 SPRING
1968 381 D75
Acaricides, Chemical control (insects), Economics, Mites, Pesticide residues, Plants, Soils, Toxicology, Tricyclohexylhydroxytin.

14203-69
EPIZOIC SYMBIOSIS.
J L Gressitt
Entomol News (philadelphia) 80(1):1-5
Jan 1969 421 EN88
Algae, Forests, Fungi, Habitats, Insect ecology, Lichenes, Rhynchophora, Symbiosis.

Symbiotic associations among cryptographic plants, orbatid mites, rotifers, nematodes and microorganisms living together on the backs of beetles, primarily weevils, from New Guinea are discussed ecologically. The relationship of high altitude and humidity and modifications of the hosts are reviewed.

14204-69
HILARIA SARTOR BECKER, THE FLY WITH THE LITTLE VEIL AND ITS DANCE (DIPTERA). (GE)
K Gruhl
Deut Entomol Ges Mitt 21(3):43-46 REF
15 Jun 1962 420 D482
Anatomy, Diptera, Hilaria, Insect behavior, Physiology. Second continuation and conclusion from vol. 21 no. 1 and 2.

14205-69
HILARIA SARTOR BECKER, THE FLY WITH THE LITTLE VEIL AND ITS DANCE (DIPTERA). (GE)
K Gruhl
Deut Entomol Ges Mitt 21(1):8-12
15 Feb 1962 420 D482
Anatomy, Diptera, Hilaria, Insect behavior, Physiology. To be continued

14206-69
ON THE CROSS-INOCULATION OF CHILO IRIDESCENT VIRUS. CIV. (JAP)
H Hama
Jap J Appl Entomol Zool 12(1):34-39 REF
Mar 1968 475 J27
Chilo iridescent virus, Chilo suppressalis, Dendrolimus spectabilis, Galleria mellonella, Immunization, Insect diseases, Insect histology, Larvae, Pieris rapae crucivora, Viruses. English summary

14207-69
ULTRASTRUCTURE OF THE ILEUM OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.
M Hassemer S D Beck M Sugawara D Murayama
J Insect Physiol 15(10):1791-1802
Oct 1969 421 J825
Electron microscopy, Gastrointestinal system, Insect physiology, Leaf roll, Ostrinia nubilalis, Potatoes, Virus diseases (plants), Virus purification.

14208-69
RADIATION SENSITIVITY OF DROSOPHILA EMBRYOS IN RELATION TO AGE, IN AIR AND IN NITROGEN.
E Havin P Oftedal
Int J Radiat Biol 14(2):149-160 REF
16 Oct 1968 444.8 IN8
Aging, Air, Drosophila melanogaster, Eggs, Nitrogen, X-rays.

14209-69
A STUDY OF FREE AMINO ACIDS IN RICE MOTH LARVAE DURING MYCOTOXICOSIS.
U C Hedge E R B Shanmugasundaram
Can J Comp Med Vet Sci 32(1):392-394 REF
Jan 1968 41.8 C162
Aflatoxicosis, Amino acids, Aspergillus flavus, Insect biochemistry, Insect physiology, Larvae, Moths, Mycotoxicosis.

Abstract: There is an increase in free amino acids in intoxicated larvae and this was directerly proportional to the degree of toxicity as indicated by decrease in growth of these larvae. The study of excretary pattern of amino acids show intoxicated larvae excrete less amino acids than normal larvae.

14210-69
INSECTS VS MAN. (LEP. NOTODONTIDAE).
G A Helson
New Zeal J Agr 119(3):41-43
Sep 1969 23 N48J
Chemical control (insects), Classification, Crop losses, Insect ecology, Insect pests, Insect physiology, Larvae, Notodontidae, Plant geography, Surveys.

14211-69
A TROGLOBITIC STAPHYLINID FROM MEXICO (COLEOPTERA, STAPHYLINIDAE, PAEDERINAE).
L J Herman
Amer Mus Novitates (2367):1-9
24 Apr 1969 500 N483N
Insect ecology, Insect taxonomy, Staphylinidae.

14212-69
PROPERTIES OF LEPTINOTARSIN, A TOXIC HEMOLYMPH PROTEIN FROM THE COLORADO POTATO BEETLE.
T H Hsiao G Fraenkel
Toxicon 7(2):119-130 REF
Sep 1969 391.8 T66
Botrytis cinera, Chemical analysis, Copper oxychloride, Grape vineyards, Hemolymph, Insect biochemistry, Leptinotarsa decemlineata, Musca domestica, Proteins, Spraying equipment, Toxicology, Toxins. English abstract.

14213-69
ADENINE AND RELATED SUBSTANCES AS POTENT FEEDING STIMULANTS FOR THE ALFALFA WEEVIL, HYPERA POSTICA.
T H Hsiao J Gammel E Jean J Kissel C Royer
J Insect Physiol 15(10):1785-1790 REF
Oct 1969 421 J825
Adenine, Alfalfa, Animal physiology, Cattle, Diagnosis, Feeding, Hypera postica, Insect behavior, Plant extracts, Rabies, Stimulants, Virus diseases (animals).

14214-69
THE PHEROMONE OF THE QUEEN OF THE ORIENTAL HORNET, VESPA ORIENTALIS.
R Ikan R Gottlieb E D Bergmann J Ishay
J Insect Physiol 15(10):1709-1712 REF
Oct 1969 421 J825
Chemical analysis, Chromatography, Hydrolysis, Insect biochemistry, Mass spectra, Myzus ascalonicus, Pheromones, Population, Secretions, Strawberries, Temperature, Vespa orientalis.

14215-69
DD--136: THE WORM THAT MAKES SHORT WORK OF INSECT PESTS.
Indian Farming 16(8):22-23
Nov 1966 22 IN283
Biological control (insects), Nematodes, Rearing.

14216-69
ISOLATION OF VIRUSES OF THE CALIFORNIA ENCEPHALITIS VIRUS GROUP FROM BOREAL AEDES MOSQUITOES.
J Iversen R P Hanson O Papadopoulos C V Morris G R DeFoliart 6
Amer J Trop Med Hyg 18(5):735-742 MAP REF
448.8 AM326
Aedes communis, Aedes stimulans, California encephalitis virus, Insect vectors, Viruses.

14217-69
THE PHOTOTACTIC PUSH-PULL-COUPLING BETWEEN DORSAL OCELLI AND COMPOUND EYES IN THE PHOTOTROPOTAXIS OF LOCUSTS AND CRICKETS (SALTATOPTERA: LUCUSTA MIGRATORIA AND GRYLLUS BIMACULATUS). (GER)
R Jander C K Barry
Z Vergleichende Physiol 57(4):432-458 REF
1968 444.8 Z3
Eyes, Grasshoppers, Gryllus bimaculatus, Insect physiology, Locusta migratoria, Ocelli, Phototropism. English summary

14218-69
THE EFFECTS OF LIGATURING GALLERIA MELLONELLA LARVAE ON TOTAL HAEMOCYTE COUNTS AND ON MITOTIC INDICES AMONG HAEMOCYTES.
J C Jones D P Liu
J Insect Physiol 15(10):1703-1708
Oct 1969 421 J825
Barley, Blood cells, Erysiphe graminis, Fungus diseases (plants), Galleria mellonella, Genes, Insect physiology, Larvae, Mitosis, Plant disease resistance, Plant physiology, Powdery mildew, Sutures.

14219-69
CYTOLOGY AND CYTOCHEMISTRY OF SPERMATOGENESIS IN TWO MILLIPEDES PHYLLOGONOSTREPTUS NIGROLABIATUS AND GONOPLECTUS MALAYAS.
N R Kalla J A W Lucas
Cytologia 34(1):80-89 REF
Mar 1969 44.8 C99
Diplopoda, Insect biochemistry, Insect taxonomy, Photomicrography, Spermatogenesis, Surveys, Syrphidae.

14220-69
FIELD STUDIES ON THE LIFE-HISTORIES OF SOME BRITISH STAPHYLINIDAE (COLEOPTERA).
F K Kasule
Soc Brit Entomol Trans 18(PT. 4):49-80 REF
Dec 1968 420 SO15
Demography, Insect behavior, Life cycle, Seasonal variation, Staphylinidae.

14221-69
CATERPILLAR POLYMORPHISM OF PERGESA ELPENOR L. (GE)
K Kernbach
Deut Entomol Ges Mitt 18(3):49-51
15 Jun 1959 420 D482
Caterpillars, Environment, Insect morphology, Larvae, Polymorphism, Temperature.

14222-69
HAWK MOTHS WITH MITES. (LEP. SPHINGIDAE). (GE)
K Kernbach
Deut Entomol Ges Mitt 21(5-6):68
15 Nov 1962 420 D482
Insect behavior, Lepidoptera, Mites, Moths, Parasitism, Sphingidae.

14223-69
THE ABILITY OF COLOUR DISTINCTION IN THE WOOD-ANT FORMICA POLYCTENA FORSTER. (GER)
J Kieperheuer
Z Vergleichende Physiol 57(4):409-411
1968 444.8 Z3
Color, Formica polyctena, Insect behavior, Insect cultures, Light, Vision. English summary

14224-69
PARASITIZATION OF SOCIAL HALICTINE BEES IN SOUTHERN ONTARIO.
G Knerer C E Atwood
Entomol Soc Ontario Proc 97:103-110 REF
1966 420 ON8
Bees, Insect behavior, Insect names, Parasitism, Population, Research, Statistical analysis.

14225-69
DAWN AND DUSK ACTIVITY PERIODS AND ORIENTATION TO FOREST AND FIELD OF THE DROSOPHILA SUBOBSCURA AND DROSOPHILA OBSCURA. (GE)
R Koch
Z Vergleichende Physiol 54(3):353-394 REF
1967 444.8 Z3
Drosophila obscura, Drosophila subobscura, Forest insects, Insect behavior, Insect cultures, Insect ecology, Land, Photoperiodism. English summary

14226-69
ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964--1967. IV. CACHE VALLEY VIRUS.
R H Kokernot J Hayes C H Tempelis D H M Chan K R Boyd Et Al
Amer J Trop Med Hyg 18(5):768-773 REF
Sep 1969 448.8 AM326
Anopheles quadrimaculatus, Antibodies, Arboviruses, Cattle, Surveys.

14227-69
ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964--1967. III. FLANDERS VIRUS.
R H Kokernot J Hayes R L Will B Radivojevic K R Boyd Et Al
Amer J Trop Med Hyg 18(5):762-767
Sep 1969 448.8 AM326
Animal disease transmission, Arboviruses, Culex restuans.

14228-69
MATING AND OVARY STUDIES ON CERAPTERYX GRAMMIS L. (LEP. NOCTUIDAE), COLLECTED FROM A LIGHT TRAP.
O Kugelberg
Opusc Entomol 33(1-2):107-110 REF
1968 421 OP7
Insect behavior, Insect ecology, Noctuidae, Ovaries, Sex behavior.

14229-69
OBSERVATIONS ON THE OVULATION AND OVIPOSITION WITH REFERENCE TO CORPUS LUTEUM FORMATION IN MUSCA DOMESTICA NEBULO FABR. (MUSCIDAE: DIPTERA).
S K Kulshrestha
Ann Mag Natur Hist 3(4,OCT-DEC):561-570 REF
Dec 1969 410 AN77
Corpus luteum, Curculionidae, Insect eggs, Insect histology, Insect physiology, Musca domestica, Oviposition, Ovulation.

14230-69
STRUCTURAL PECULIARITIES OF THE MOUTH PARTS IN CERTAIN GAMASID MITES (PARASITIFORMES, GAMASOIDEA) IN RELATION TO THEIR TRANSITION TO HAEMATOPHAGY.
Yu P Lagutenko
Entomol Rev 46(4,OCT-DEC):461-466 REF
Dec 1967 421 R322AE
Insect evolution, Insect morphology, Mites, Mouth. Russian journal pp. 784-792

14231-69
KEY TO THE ADULT HYMENOPTEROUS PARASITES OF PULICALVARIA PICEAELLA (KEARFOOT), (LEPIDOPTERA: GELICHIIDAE) OF QUEBEC. (FR)
J P Laplante
Entomol Soc Quebec Ann 12(3):137-165 REF
Sep 1967 420 EN822
Gelechiidae, Hymenoptera, Lepidoptera, Parasitic insects, Pulicalvaria, Zoogeography.

14232-69
ARTIFICIAL STIMULATIONS IN ENCOUNTER BEHAVIOR OF VESTRIA VIRIDIS (REDT.) (ORTHOPTERA TETTIGONIDAE COPIPHORINAE DE LA TRINITE). (FR)
Y Leroy
Acad Sci Compt Rend Ser D Sci Nat 266(17, 1ST SEMESTER):1761-1763
22 Apr 1968 505 P21
Insect behavior, Tettigoniidae.

14233-69
THE MANDIBLES OF TWO SOUTH AMERICAN GRASSHOPPERS. (SP)
J Liebermann
Rev Invest Agr Ser 5, Patol Veg 5(5):53-62
1968 464.8 R322
Acrididae, Food habits, Insect morphology, Mouth parts, South America. English abstract

14234-69
PRELIMINARY REPORT ABOUT MY BREEDING ATTEMPTS WITH MICROPTERYX CALTHELLA L. (LEP., MICR.). (GE)
R E Lorenz
Deut Entomol Ges Mitt 18(3):42-45
15 Jun 1959 420 D482
Breeding, Food plants, Insect behavior, Lepidoptera, Micropterygidae, Reports.

14235-69
OBSERVATIONS ON WOOD-DESTROYING INSECT LIVING IN THE FOOTBRIDGE OVER SIIKANEVA BOG.
K Loyttyniemi
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):260-264
20 Dec 1967 421 SU7
Bogs, Cerambycidae, Insect ecology, Tragosoma depsarium, Wood-destroying insects.

14236-69
HORMONAL CONTROL OF IMAGINAL DISC REGENERATION IN GALLERIA MELLONELLA (LEPIDOPTERA).
K Madhavan H A Schneiderman
Biol Bull 137(2):321-331
Oct 1969 442.8 B52
Ecdysone, Galleria mellonella, Hormones, Insect physiology, Metamorphosis, Regeneration.

14237-69
A NEW METHOD OF ESTIMATING POPULATION SIZE, SURVIVORSHIP, AND BIRTH RATE FROM CAPTURE-RECAPTURE DATA.
B F J Manly M J Parr
Soc Brit Entomol Trans 18(PT. 5):81-89
Dec 1968 420 SO15
Insect behavior, Longevity, Population, Statistical methods, Zygaenidae.

14238-69
SOME ASPECTS OF ADAPTATION IN THE LIFE CYCLE OF INSECTS. (JA
S Masaki
Kontyu 35(3):205-220
Sep 1967 421 K833
Insect adaptation, Insect biology, Metamorphosis.

14239-69
DOES THE BEATING OF BUTTERFLY WINGS CAUSE ELECTRICAL PHENOMENA . (GE)
R Mell
Deut Entomol Ges Mitt 18(1):5-6
15 Feb 1959 420 D482
Butterflies, Electricity, Frogs, Insect behavior, Sex, Wings (insects).

14240-69
A THREE DIMENSIONAL SKETCH OF THE TUNNELS OF THE RAPIENTIA NESTS (HYM., SPHECOIDEA).
A K Merisud
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):176-180
02 Nov 1967 421 SU7
Construction materials, Hymenoptera, Illustrations, Insect ecology, Insect nests.

14241-69
ON THE LIFE CYCLE OF COELORABRO AMBIGUUS (HYM., SPHECIDAE). (GE)
A K Merisuo
Suomen Hyonteistieteellinen Aikokouskir Ann Entomol Fenn 33(2):99-101
30 Aug 1967 421 SU7
Insect ecology, Life cycle, Sphecidae.

14242-69
THE ACTION OF X-RAYS ON THE OSMOTIC PRESSURE AND THE PH OF THE HEMOLYMPH OF GALLERIA MELLONELLA L. (INSECTA LEPIDOPTERA). (FR)
G Mestres P Laviolette
Acod Sci Compt Rend Ser D Sci Nat 266(20, 1ST SEMESTER):2093-2096
13 May 1968 505 P21
Galleria mellonella, Hemolymph, Hydrogen-ion concentration, Insect physiology, Osmotic pressure, X-rays.

14243-69
HEMIANAX EPHIPPIGER (BURM.) (ODONATA) CARRIED TO ICELAND FROM THE EASTERN MEDITERRANEAN BY AN AIR-CURRENT .
K Mikkola
Opusc Entomol 33(1-2):111-113 MAP
1968 421 OP7
Air, Insect dissemination, Odonata.

14244-69
OBSERVATIONS OF THE INSECT PESTS OF THE OLD SHRINE AND THE BUDDHIST TEMPLE WOODEN BUILDINGS AND A FEW TRYPOXYLONID WASPS. (JA)
J Minamikawa
Jap J Appl Entomol Zool 12(1):45
Mar 1968 475 J27
Buildings, Hymenoptera, Insect ecology, Insect pests, Trypoxyloninae, Wood-destroying insects.

14245-69
CHARACTERISTIC ORDER OF THE FILIFORM HAIRS OF PERIPLANETA AMERICANA. (GER)
R Nicklaus
Z Vergleichende Physiol 54(3):434-437
1967 444.8 Z3
Hair, Insect physiology, Light, Microscopy, Periplaneta americana.

14246-69
FRUIT-PIERCING MOTHS AND THEIR CONTROL IN JAPAN. (JA)
K Nomura I Hattori
Kontyu 35(3):312-322
Sep 1967 421 K833
Cave fauna, Insect control, Insect ecology, Lepidoptera, Moths.

14247-69
THE DETAILS OF ENDOMITOSIS IN THE SERICEOUS GLANDS OF GALLERIA MELLONELLA (INSECTA LEPIDOPTERA). (FR)
C G Nordau
Acad Sci Compt Rend Ser D Sci Nat 266(17, 1ST SEMESTER):1749-1750
22 Apr 1968 505 P21
Cell nucleus, Cytology, Galleria mellonella, Insect physiology, Mitosis, Silk glands.

14248-69
EFFECT OF LOXOSCELES RECLUSA GERTSCH AND MULAIK VENOM ON HELIOTHIS VIRESCENS (F.) LARVAE. OOSTERHOF, G.
B R Norment S B Vinson
Toxicon 7(2):99-101
Sep 1969 391.8 T66
Dichlobenil, Heliothis virescens, Hemolymph, Herbicide application, Insect biochemistry, Larvae, Lipids, Loxosceles reclusa, Methodology, Muscles, Proteins, Venoms. English abstract.

14249-69
THE FLIGHT ACTIVITY OF THE PIGMY-MANGOLD CHAFER ATOMARIA LINEARIS STEPH. IN THE COURSE OF 24 HOURS. (COL., CRYPTOPHAGIDAE). (GE)
I Novak
Acta Ent Bohemoslov 64(4):294-302 REF
20 Jul 1967 420 C33
Cryptophagidae, Insect behavior, Insect flight. English and Czech abstracts

14250-69
ECDYSONE AND DNA SYNTHESIS IN CULTURED WING DISKS OF THE WAX MOTH, GALLERIA MELLONELLA.
H Oberlander R I B Francki
J Insect Physiol 15(10):1803-1806
Oct 1969 421 J825
Deoxyribonucleic acid, Ecdysone, Electron microscopy, Galleria mellonella, Insect biochemistry, Ribonucleic acid, Ring spot, Staining, Synthesis, Tissue culture, Tobacco, Virus diseases (plants).

14251-69
STUDY ON THE DENSITY OF THE ADULT OF THE BROWN PLANTHOPPER NILAPARVATA LUGENS STAL.
N Ohkubo
Jop J Ecol 17(6):230-233
Dec 1967 410 J272
Eggs, Imagos, Insect dissemination, Insect physiology, Nilaparvata lugens, Ovipositors, Population, Wings (insects). English summary

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A CORRELATION BETWEEN THE ABILITY TO WITHSTAND HIGH TEMPERATURES AND RADIORESISTANCE IN DROSOPHILA MELANOGASTER.
P A Parsons
Experientia 25(9):1000-1001 REF
15 Sep 1969 475 EX7
Cobalt, Drosophila melanogaster, Insect physiology, Irradiation, Radiobiology, Temperature.

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OVIPOSITION SITES AND THE VIABILITY OF EGGS OF THYMELICUS LINEOLA (OCHS.) (LEPIDOPTERA: HESPERIIDAE).
D H Pengelly
Entomol Soc Ontario Proc 95:102-105
1966 420 ON8
Eggs, Habitats, Insect control, Morphology, Ovipositors, Research, Thymelicus lineola.

14254-69
SPECIAL FORMS OF AMITOTIC NUCLEAR DIVISION IN STRIATED MUSCLE AND OTHER INSECT TISSUES.
T P Pessacq
Experientia 25(9):977-978
15 Sep 1969 475 EX7
Amitosis, Cell nucleus, Coleoptera, Diptera, Hymenoptera, Insect physiology, Lepidoptera, Muscles.

14255-69
EXCEPTIONS TO THE PREVAILING PATTERN OF TUBULES (9 PLUS 9 PLUS 2) IN THE SPERM FLAGELLA OF CERTAIN INSECT SPECIES.
D M Phillips
J Cell Biol 40(1):28-43 REF
Jan 1969 442.8 J828
Ctenocephalides, Flagella, Insect histology, Psocidae, Spermatozoa.

14256-69
DIAPAUSE IN THE NEUROPTERAN CHRYSOPA OCULATA. BY ULTRACENTRIFUGATION AND IDENTIFICATION OF N- AND CTERMINAL ENDS.
G D Propp M J Tauber C A Tauber
J Insect Physiol 15(10):1749-1757 REF
Oct 1969 421 J825
Bacillus thuringiensis, Bacteriology, Biochemistry, Centrifuges, Chrysopa, Insect physiology, Larvae, Light, Temperature.

14257-69
SPERM ACTIVATION AND MIGRATION IN BED BUGS. SIZE IN HYPERSENSITIVE HOSTS IN THE PRESENCE OF CHLORAMPHENICOL.
H V Rad N T Davis T Van Praagh
J Insect Physiol 15(10) 1815-1832 REF
Oct 1969 421 J825
Chloramphenicol, Cimex lectularius, Hydrogen-ion concentration, Hypersensitivity, Insect behavior, Insect biochemistry, Reproduction, Spermatozoa, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

14258-69
BRAIN INTERNEURONS IN NOCTUID MOTHS: DIFFERENTIAL SUPPRESSION BY HIGH SOUND INTENSITIES. AND GRASSES.
K D Roeder P A Burgess
J Insect Physiol 15(10):1713-1718
Oct 1969 421 J825
Avena fatua, Brain, Bromus, Cephalosporium gramineum, Dactylis glomerata, Fungus diseases (plants), Grain, Grasses, Heliothis zea, Insect physiology, Nerves, Noctuidae, Sound waves, Stripe.

14259-69
OBSERVATIONS ON THE DIAPAUSAL AND POST-DIAPAUSAL, PROTERANDRIC DEVELOPMENTAL EVENTS IN CATERPILLARS OF SPARGANOTHIS PILLERIANA SCHIFF. (LEPIDOPTERA: TORTRICIDAE). (GE)
K Russ
Pflanzenschutzberichte 38(5/7):57-68
Jul 1968 464.9 P48
Feeding, Insect morphology, Measurement, Metamorphosis, Research, Tortricidae. English summary.

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PERSISTENT TOXICITY OF SOME SYSTEMIC INSECTICIDES TO LITTLE HONEY BEES.
M L Saini A D Khurana
Pesticides 1(7):24-25
Mar 1968 SB951.P43
Apis, Chemical control (insects), Dimethoate, Menazon, Phosphamidon, Poisoning, Systemic insecticides, Toxicology.

14261-69
HYDROLYSIS OF ACETYLTHIOCHOLINE AND BUTYRYLTHIOCHOLINE BY CHOLINESTERASES OF INSECTS AND A MITE.
M Sakai
Appl Entomol Zool 2(2):111-112
Jun 1967 SB599.A6
Acetylcholinesterases, Biochemistry, Cholinesterases, Colorimetry, Hydrolysis, Insects, Mites, Research, Substrates, Temperature.

14262-69
TENSION TRANSIENTS IN GLYCEROL-EXTRACTED FIBRES OF INSECT FIBRILLAR MUSCLE (LETHOCERUS MAXIMUS).
M Schadler G Steiger J C Ruegg
Experientio 25(9):942-943 REF
15 Sep 1969 475 EX7
Insect physiology, Lethocerus maximus, Muscles, Temperature, Tension.

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BLOSSOM VISITATIONS OF DOMESTIC ALLANTUS SPECIES, AND PLACES WHERE THEY ARE FOUND. (GE)
E Schmidt
Deut Entomol Ges Mitt 18(5):72-73
15 Oct 1959 420 D482
Flowers, Insect behavior, Tenthredinidae, Zoogeography.

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THE MODE OF LIFE OF THE BORER MOTH PARASITE ADELIUS ERYTHRONOTUS FORST.(HYM., BRAC.). (GE)
J Schoenherr
Deut Entomol Ges Mitt 18(6):99-101
15 Dec 1959 420 D482

Braconidae, Food plants, Hymenoptera, Insect behavior, Parasitism.

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BODY CONSTRAINT AND DEVELOPMENTAL ARREST IN GALLERIA MELLONELLA L.: FURTHER STUDIES.
F Sehnal J S Edwards
Biol Bull 137(2):352-358 REF
Oct 1969 442.8 B52
Galleria mellonella, Glands (insects), Hormones, Insect physiology, Metamorphosis, Neuroendocrines, Restraining table.

14266-69
NATURAL MORTALITY OF OVERWINTERING EGGS OF LONGIUNGUIS DONACIS (PASS.). (FR)
M L Sharma
Entomol Soc Quebec Ann 12(3):133-136
Sep 1967 420 EN822
Aphididae, Aspergillus flavus, Entomogenous fungi, Hibernation, Insect biology, Insect diseases, Insect eggs, Longiunguis donacis, Mortality, Temperature. Abstract in English

14267-69
BRACHYMERIA FEMORATA PANZER (HYMENOPTERA CHALCIDIDAE). (GE
H R Simon
Deut Entomol Ges Mitt 18(5):82-83
15 Oct 1959 420 D482
Chalcididae, Hymenoptera, Insect behavior, Larvae, Parasitism, Snails, Zoogeography.

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ENHANCEMENT OF INFECTIVITY OF A MAMMALIAN VIRUS PREPARATION AFTER INJECTION INTO INSECTS.
R S Spendloue R F Whitcomb D D Jensen
Virology 34(1):182-184
Jan 1968 448.8 V81
Agallia constricta, Colladonus montanus, Injections, Insects, Mammals, Physiology, Virus diseases (animals), Wound-tumor virus.

14269-69
FATTY ACIDS, ALCOHOLS AND HYDROCARBONS IN THE WAXY COVERING OF CEROPLASTES PSEUDOCERIFERUS GREEN, CEROPLASTES JAPONICUS GREEN AND CEROPLASTES RUBENS MASKELL (HOMOPTERA: COCCIDAE). (JAP)
Y Tamaki S Kawai
Jap J Appl Entomol Zool 12(1):23-28
Mar 1968 475 J27
Alcohols, Biochemistry, Ceroplastes japonicus, Ceroplastes pseudoceriferus, Ceroplastes rubens, Coccidae, Fatty acids, Glands (insects), Hydrocarbons, Insect biochemistry, Wax glands.

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A NEW CONTRIBUTION TO THE STUDY OF LEAFHOPPER FAUNA (HOMOPTERA, AUCHENORRHYNCHA). (CZ)
N Tanasijevic
Zastita Bilja 12(91-92):205-212, REF
1966 464.8 Z1
Cicadellidae, Corn, Economic plants, Homoptera, Insect ecology, Potatoes, Psammotettix, Sugar beets, Sunflowers, Weeds. English summary

14271-69
TRENDS IN STUDIES ON INSECT NATURAL ENEMIES AND THE FUTURE PROBLEMS CONCERNED. (JA)
T Torii
Kontyu 35(3):278-289
Sep 1967 421 K833
Chemical control (insects), Insect ecology, Integrated control (insects), Natural control (insects), Pesticides.

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J Touzeau
Rev Zool Agr Appl 66(4-6, 2ND TRIMESTER):49-57
1967 410.9 SO12
Laspeyresia, Life cycle, Olethreutidae, Seasonal variation.

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A STUDY OF THE APPEARANCE OF THE CLEONUS OF BEETS, TEMNORRHINUS (CLEONUS) MENDICUS GYLL. (IT)
V Tullio D Ponis G Svampa
Giornate Fitopatol 333-338
26 Mar 1967 SB599.G5
Beets, Conorhynchus mendicus, Curculionidae, Insect pests, Insect traps.

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DIVERSITY OF FORMS OF PHYSIOLOGICAL REST IN INSECTS AS ONE OF THE CAUSES OF THEIR BIOLOGICAL PROGRESS.
R S Ushatinskaya
Ann Zool 5(3)19-30 REF
07 Mar 1966 410 AN78
Diapause, Insect morphology, Insect physiology, Insects.

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DEVELOPMENT OF THE VIRUS WITH INCLUSION BODIES, OF THE LEPIDOPTERA LYMANTRIA DISPAR IN CELL CULTURES. (FR)
C Vago M Bergoin
Entomophaga 8(4):253-261 REF
1963 421 EN835
Antheraea pernyi, Bombyx mori, Cytoplasm, Inclusion bodies, Insect diseases, Polyhedroses, Porthetria dispar, Tissue culture, Viruses. English summary.

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RECORDS OF THE ORTHOPTEROID INSECTS IN ONTARIO.
V R Vickery D K Kevan
Entomol Soc Ontario Proc 97:13
1966 420 ON8
Geography, Insect dissemination, Insect names, Orthoptera, Research, Surveys.

14277-69
THE ULTRASTRUCTURE AND PHYSIOLOGY OF THE ABDOMINAL AIR-GUIDE RETRACTOR MUSCLES IN THE GIANT WATER BUG, LETHOCERUS.
B Walcott B Burrows R I B Francki G K Owusu
J Insect Physiol 15(10):1855-1872 REF
Oct 1969 421 J825
Electron microscopy, Electrophysiology, Insect physiology, Lethocerus, Muscles, Peas, Plant cytology, Plant physiology, Ring spot, Roots, Tobacco, Virus diseases (plants).

14278-69
THE MECHNISM OF COUPLING OF THE LOCUST LIGHT OSCILLATOR TO OSCILLATORY INPUTS. (GE)
I Waldron
Z Vergleichende Physiol 57(4):331-337 REF
1968 444.8 Z3
Acrididae, Insect behavior, Insect dissemination, Insect physiology, Light, Oscillation, Wings (insects). English summary

14279-69
LYSOZYME ACTION IN THE COCKROACH--BLOOD CHANGES. WHILE PROBING INTERCELLULARLY.
D R A Wharton J E Lola
J Insect Physiol 15(10):1877-1886 REF
Oct 1969 421 J825
Amino acids, Blood, Chemical analysis, Cytology, Electron microscopy, Insect biochemistry, Insect vectors, Muramidase, Myzus persicae, Nitrogen, Periplaneta americana, Plant disease transmission, Stylets, Tobacco, Virus diseases (plants).

14280-69
PRELIMINARY OBSERVATIONS ON MOULTING AND LIMB REGENERATION IN THE MITE CALOGLYPHUS BOHARTI.
J P Woodring C J Simpson
J Insect Physiol 15(10):1719-1728
Oct 1969 421 J825
Caloglyphus, Crop yields, Cucumbers, Fungus diseases (plants), Insect physiology, Legs, Phomopsis sclerotioides, Plant disease resistance, Plant physiology, Regeneration, Root rot.

14281-69
RECENT ADVANCES IN THE STUDIES OF INSECT COMPOUND EYES. (JA
N Yagi N Koyama
Kontyu 35(3):175-185
Sep 1967 421 K833
Cornea, Eyes, Insect physiology, Optic nerve, Retina.

14282-69
SPARROW MITE DERMANYSSUS PASSERINUS BERL. ET TROUESS, 1885. (RUS)
A A Zemskaya
Med Parazitol Parazitarn Bolezni 37(3,MAY-JUN):313-319 REF
1968 448.8 M469
Dermanyssus, Insect biology, Insect physiology, Insect taxonomy, Larvae, Mites, Parasitic insects, Sparrows. English summary. Dermanyssus americanus is made a synonym of D. passerinus.

14283-69
ENTOMOLOGICAL NOTES ON BEPRATA MACULICOLLIS CAM., PERFORATOR OF SEEDS OF SOME ANNONACEAE. (SP)
I Zenner J
Agr Trop 23(8):528-529
Aug 1967 26 AG8
Annonaceae, Eurytomidae, Food habits, Insect biology, Seeds.

GENETICS

14284-69
PUFF FORMING ABILITY AS A FUNCTION OF CHROMOSOMAL POSITION IN DROSOPHILA MELANOGASTER .
E G Ellgaard G E Brosseau H Kees
Genetics 62(2):337-341 REF
Jun 1969 442.8 G28
Chromosomes, Drosophila melanogaster, Genes, Greenhouses, Insect genetics, Methodology, Pesticide application. English abstract

14285-69
THE SCIENTIFIC NAME FOR THE FRUIT CUP LEAF ROLLER.(LEP. TORTRICIDAE). (A CONTRIBUTION TO ORGANOXENIA). (GE)
M Hering
Deut Entomol Ges Mitt 21(5-6):72-73
15 Nov 1962 420 D482
Adoxophyes, Fruit, Genetics, Lepidoptera, Nomenclature, Tortricidae.

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THE GENETICS OF DROSOPHILA MATING BEHAVIOR. II. THE GENETIC ARCHITECTURE OF MATING SPEED IN DROSOPHILA PSEUDOOBSCURA.
S Kessler
Genetics 62(2):421-433 REF
Jun 1969 442.8 G28
Drosophila pseudoobscura, Insect behavior, Insect genetics, Insect rearing, Plant protection, Sex behavior, Spray technique.

14287-69
GENETICAL STUDIES ON THE RESISTANCE TO PARATHION IN DROSOPHILA MELANOGASTER. III. INDUCTION OF A SUSCEPTIBLE GENE FROM ITS RESISTANCE ALLELE.
H Kikkawa
Botyu-kagaku 32(4):101-105
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Alleles, Drosophila melanogaster, Genes, Insect genetics, Organophosphorus compounds, Parathion.

14288-69
ANALYSIS OF A RECESSIVE MUTATION ON THE Y CHROMOSOME OF THE FLY CALLIPHORA ERYTHROCEPHALA. (GE)
H Langer R Schnell D Ribbert F H Ullerich
Z Vererbungslehre 105(1):84-86
1969 442.8 Z34
Calliphora vicina, Chromosomes, Coconuts, Crop rotation, Cultural control (plant discases), Hydrogen-ion concentration, Insect genetics, Insect mutation, Sex, Soil chemistry, Soil moisture.

14289-69
A SYSTEM FOR SCREENING OF RARE EVENTS IN GENES OF DROSOPHILA MELANOGASTER.
E Lifschytz R Falk
Genetics 62(2):343-352 REF
Jun 1969 442.8 G28
Cucumbers, Drosophila melanogaster, Genes, Insect genetics, Powdery mildew, Surveys, Systemic fungicides. English abstract

14290-69
GENETICAL RELATIONSHIP AND ISOLATING MECHANISMS IN ANANASSAE SPECIES SUBGROUP (SOPHOPHORA, DROSOPHILA). III. CHROMOSOME BEHAVIOUR DURING MEIOSIS IN D. BIPECTINATA, D. MALERKOTLIANA AND THEIR HYBRID.
R D Narda
Cytologia 34(1):126-132 REF
Mar 1969 44.8 C99
Chromosomes, Drosophila bipectinata, Drosophila malerkotliana, Hybrids, Insect genetics, Insect taxonomy, Meiosis, Neuroptera, Odonata, Surveys.

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EFFICIENCY OF SELECTION FOR INCREASED OR DECREASED RECOMBINATION.
M Nei Y Imaizumi
Amer Natur 102(923,JAN-FEB):90-93
27 Feb 1968 470 AM36
Demography, Drosophila, Insect genetics, Mathematical analysis.

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A THYMIDINE-INDUCED SEX-LINKED, SEX-LIMITED TEMPERATURE-SENSITIVE LETHAL AND THE SIGNIFICANCE OF MODIFIER GENES IN DROSOPHILA MELANOGASTER.
O Parkash
Experientia 25(9):998
15 Sep 1969 475 EX7
Chromosomes, Drosophila melanogaster, Genes, Insect genetics, Lethal factor, Sex, Temperature, Thymidine.

14293-69
THE POSITION OF THE CP, IN AND RI GENES AND THE 3RD CHROMOSOME CENTROMERE IN DROSOPHILA MELANOGASTER. EVIDENCE FROM A NEW TRANSLOCATION.
J Puro P Arajarvi
Hereditas 62(3):414-418 REF
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Chromosomes, Drosophila melanogaster, Genes, Insect genetics.

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DEVELOPMENTAL GENETIC STUDIES OF AMINOPEPTIDASES IN DROSOPHILA MELANOGASTER.
R K Sakai D A Tung J G Scandalios
Z Vererbungslehre 105(1):24-29
1969 442.8 Z34
Aminopeptidase, Antibiotics, Cattle, Dipping, Drosophila melanogaster, Electrophoresis, Enzymes, Hypochlorites, Insect biochemistry, Insect genetics, Livestock diseases, Mastitis.

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THE SHEEP BLOWFLY'S TOLERANCE OF INSECTICIDES (LUCILIA CUPRINA).
G J Shanahan
Agr Gaz New S Wales 78(PT 8):444-445
Aug 1967 23 N472
Calliphoridae, Carbamates, Insect genetics, Insecticide resistant insects, Organophosphorus compounds.

14296-69
GENETIC VARIATION IN NATURAL ISLAND POPULATIONS OF MEMBERS OF THE DROSOPHILA NASUTA AND DROSOPHILA ANANASSAE SUBGROUPS.
W S Stone M R Wheeler F M Johnson K I Kojima
Nat Acad Sci Proc 59(1):102-109 REF
Jan 1968 500 N21P
Chromosomes, Drosophila, Enzymes, Insect genetics, Population.

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14297-69
DAMAGE CAUSED BY LANKESTERIA CULICIS (ROSS) TO AEDES AEGYPTI (L.).
W L Barrett
Mosquito News 28(3):441-444
Sep 1968 421 M85
Aedes aegypti, Biological control (insects), Insect diseases, Insect physiology, Lankesteria culicis, Malpighian tubes, Protozoa.

14298-69
GLOBAL ERADICATION OF MALARIA: CHANGES OF STRATEGY AND FUTURE OUTLOOK.
A Gabaldon
Amer J Trop Med Hyg 18(5):641-656 REF
Sep 1969 448.8 AM326
Animal disease transmission, Chemical control (insects), Chlorinated hydrocarbons, DDT, Malaria, Plasmodium, Public health entomology.

14299-69
STUDIES ON THE POSSIBILITIES OF USING BLOWFLIES (DIPT.) AS MEDICOLEGAL INDICATORS IN FINLAND. I. REPORT OF FOUR INDOOR CASES FROM THE CITY OF HELSINKI.
P Nuorteva M Isokoski K Laiho
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):217-225 REF
20 Dec 1967 421 SU7
Calliphoridae, Forensic medicine, Insect pests, Jurisprudence, Medicine.

CROP PROTECTION

14300-69
THE REGULATORY EFFECT OF GIBBERELLIC ACID AND CYTOKININS ON FRUIT MATURATION AND RIPENING. (ABSTRACT).
H A Abdel-Gawad R J Romani
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Fruit, Gibberellic acid, Harvesting, Mitosis, Morphology, Research, Spraying.

14301-69
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U S D A Farmers Bull (2190):14P MAP
Jun 1967 1 AG84F
Corn, Diatraea crambidoides, Dusting, Heliothis zea, Insect behavior, Insect physiology, Insecticides, Integrated control (insects), Larvae, Leaves, Ostrinia nubilalis, Parasites, Plant injuries, Plant pest control, Plant pest resistance, Pseudaletia unipuncta, Pyrausta ainsliei, Spraying, Tillage.

14302-69
THE EFFECT OF ALAR (N-DIMETHYLAMINO SUCCINAMIC ACID) ON YIELD AND QUALITY ATTRIBUTES OF CONCORD GRAPES.
G A Cahdon C W Donoho
Hortscience 3(2,SUMMER):125-126
1968 SB1.H6
Crop yields, Grapes, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14303-69
THE INFLUENCE OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR) ON GROWTH OF THE SWEET CHERRY, PRUNUS AVIUM. (ABSTRACT).
M H Chaplin A L Kenworthy
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Color, Hydrogen-ion concentration, Mazzard cherries, Physiology, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14304-69
THE TEA RESEARCH INSTITUTE OF CEYLON. ANNUAL REPORT FOR THE YEAR 1966. PART II.
E M Chenery R L De Silva
Ceylon, Tea Research Institute (PT II):169P
1966 68.19 C33A
Agricultural research, Insect pests, Plant biochemistry, Plant diseases, Plant nematodes, Plant physiology, Plant propagation, Reports, Statistical analysis, Tea.

14305-69
EFFECTS OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR), (2-CHLOROETHYL TRIMETHYLAMMONIUM CHLORIDE (CCC), GIBBERELLIC ACID (GA), AND MALEIC HYDRAZIDE (MH) ON BOLTING IN LETTUCE. (ABSTRACT).
G W Diekerson
Hortscience 3(2,SUMMER):97-98
1968 SB1.H6
Chloroethyl)trimethylammonium chloride, (2-, Chlorosis, Gibberellic acid, Harvesting, Lettuce, Maleic hydrazide, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14306-69
PATHOGENIC VARIABILITY AND THE UNIT REPRESENTING A SINGLE FERTILIZATION IN PUCCINIA CORONATA VAR. AVENAE.
A Dinoor J Khair G Fleischmann
Can J Bot 46(4):501-508 REF
Apr 1968 470 C16C
Breeding, Fertilization (plants), Plant genetics, Puccinia coronata, Reproduction, Research.

14307-69
COST OF EFFECTIVE PLANT PROTECTION IN THE FIELD, THE GARDEN, AND THE VINEYARD. (GER)
H Drees
Gesunde Pflanzen 19(7):144-146
Jul 1967 464.8 G33
Agricultural production economics, Gardens, Grape vineyards, Land, Pesticides, Plant protection.

14308-69
FRUITING RESPONSE OF THE HIGHBUSH BLUEBERRY TO APPLIED GIBBERELLIC ACID UNDER FIELD CONDITIONS. (ABSTRACT).
P Eck C Mainland
Hortscience 3(2,SUMMER):112
1968 SB1.H6
Blueberries, Crop yields, Gibberellic acid, Morphology, Plant disease control, Pollination, Research.

14309-69
REGULATION OF GROWTH, FLOWERING AND FRUIT ABSCISSION OF APPLES AND PEACHES WITH AMCHEM 66-329. (ABSTRACT).
L J Edgerton W J Greenhalg
Hortscience 3(2,SUMMER):91
1968 SB1.H6
Abscission, Apples, Harvesting, Morphology, Peaches, Plant hormones, Plant physiology, Reproduction, Research.

14310-69
RUTSTROEMIA CUNICULI, A COPROPHILOUS SPECIES OF THE SCLEROTINIACEAE.
M E Elliott
Can J Bot 45(4):521-524
Apr 1967 470 C16C
Ascomycetes, Fungi, Taxonomy.

14311-69
EFFECTS OF N-DIMETHYLAMINO SUCCINAMIC ACID ON THE SIZE OF POTATOES. (ABSTRACT).
R Funt
Hortscience 3(2,SUMMER):98
1968 SB1.H6
Morphology, Physiology, Potatoes, Research, Succinic acid, 2,2-dimethylhydrazide.

14312-69
STIMULATION OF FLOWER BUD ABSCISSION AND CONCENTRATION OF FRUIT SET IN TOMATO, (ABSTRACT).
S A Garrison G A Taylor
Hortscience 3(2,SUMMER):92
1968 SB1.H6
Abscission, Greenhouses, Leaves, Research, Spraying, Stimulants, Tomatoes.

14313-69
STIMULATION OF TOMATO RIPENING BY AMCHEM 66-329. (ABSTRACT.
S A Garrison
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Injections, Plant regulators, Pollination, Research, Stimulants, Tomatoes, Water.

14314-69
VEGETATIVE AND REPRODUCTIVE RESPONSES OF HIGHBUSH BLUEBERRY TO SUCCINIC ACID 2,2-DIMETHYLHYDRAZIDE (ALAR).
J C Hapitan V G Shutak
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Blueberries, Reproduction, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide, Vegetation.

14315-69
PROBLEMS OF INTEGRATED PEST CONTROL IN PRACTICAL PLANT PROTECTION. (GE)
W Herfs
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(7):412-423 REF
Jul 1968 464.8 Z3
Animal physiology, Integrated control (pests), Methodology, Plant protection, Public health, Research. French and English summaries

14316-69
THE EFFECT OF GIBBERELLIC ACID ON THE HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM). (ABSTRACT).
R F Hooks A L Kenworthy
Hortscience 3(2,SUMMER):112-113
1968 SB1.H6
Blueberries, Gibberellic acid, Hydrogen-ion concentration, Research.

14317-69
EFFECT OF SILVICULTURAL PRACTICES UPON ARTHROPOD, ANNELID, AND NEMATODE POPULATIONS IN CONIFEROUS FOREST SOIL.
V Huhta E Karppinen M Nurminen A Valpas
4(2):87-146 REF
1967
Animal adaptation, Annelida, Arthropoda, Chemical control (insects), Climate, Coniferae, Dusting, Environment, Fertilizers, Forest cutting cycles, Forests, Insecticides, Nematodes, Population, Reforestation, Silviculture, Soil anaiysis, Tables (data), Thinning (trees).

14318-69
ROOTING OF NARROWLEAF EVERGREEN CUTTINGS AS INFLUENCED BY VARIOUS HORMONE TREATMENTS. (ABSTRACT).
R M Irving W O Johnson
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Chemicals, Junipcrus, Junipcrus chinensis, Plant cuttings, Plant hormones, Roots, Thuja.

14319-69
MUTATION INDUCTION BY EMS IN AUTOTETRAPLOID BARLEY.
R Krishnaswami
Indian Acad Sci Proc Sect B 67(3):125-128 REF
Mar 1968 513 IN25B
Barley, Ethyl methanesulfonate, Mutagens, Mutation, Polyploidy, Radiation.

14320-69
EFFECTS OF CIPC APPLICATIONS TO INDIVIDUAL EYES OF POTATO TUBERS ON TYPE AND PATTERN OF SPROUT DEVELOPMENT.
M S Lee E E Ewing
Hortscience 3(2,SUMMER):102
1968 SB1.H6
Chlorpropham, Morphology, Physiology, Plant diseases, Potatoes, Research, Seeds.

14321-69
THE PESTICIDE REVIEW, 1968.
J N Mahan D L Fowler H H Shepard
54P.
Dec 1968 1.956 M343P43
Agricultural production economics, Agricultural research, Attractants, Fumigants, Fungicides, Herbicides, Insect repellents, Insecticides, Pesticides, Plant regulators, Reviews, Rodenticides.

14322-69
EFFECTS OF SUCCINIC ACID 2, 2-DIMETHYL HYDRAZIDE (ALAR) ON APPLES. (ABSTRACT).
G E Mattus
Hortscience 3(2,SUMMER):122
1968 SB1.H6
Apples, Color, Harvesting, Research, Spraying, Storage, Succinic acid, 2,2-dimethylhydrazide.

14323-69
USE OF HIGH SPEED CENTRIFUGATION TO OBTAIN EXTRACTS FROM CUTTINGS TREATED BY TERMINAL APPLICATIONS OF INDOLEACETIC ACID-3 (IAA-2-14C). (ABSTRACT).
J J Mc Guire L S Albert V G Shutak
Hortscience 3(2,SUMMER):120
1968 SB1.H6
Centrifugation, Extracts, Ilex crenata, Isotopes, Plant cuttings, Quantitative analysis, Research.

14324-69
THE EFFECT OF SUCCINIC ACID 2,2-DIMETHYL HYDRAZIDE ON STEM AND LEAF TISSUES OF CHRYSANTHEMUM MORIFOLIUM BRIGHT GOLDEN ANNE. (ABSTRACT).
A W Mitlehner
Hortscience 3(2,SUMMER):118
1968 SB1.H6
Chrysanthcmum morifolium, Histology, Plant anatomy, Research, Succinic acid, 2,2-dimethylhydrazide, Tissues.

14325-69
EFFECTS OF GAMMA IRRADIATION ON PRICKLY PEAR CACTUS.
C D Monk
Florida Acad Sci Quart J 30(3):168-172
Sep 1967 500 F66
Gamma rays, Mortality, Opuntia, Plant injuries, Research, Tables (data), Time, Vegetation.

14326-69
INHERITANCE OF SPLIT COTYLEDONS IN SWEDE TURNIPS (BRASSICA NAPUS).
T P Palmer
New Zeal J Bot 6(2):129-136
Jun 1968 450 N48
Breeding, Gcnes, Hcrcdity, Plant genetics, Plant morphology, Rape, Temperature, Turnips.

14327-69
STIMULATION AND RETARDATION OF ADVENTITIOUS ROOT FORMATION BY APPLICATION OF B-NINE AND CYCOCEL.
P E Read V C Hoyscer
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Chloroethyl)trimethylammonium chloride, (2-, Geranium, Plant cuttings, Rcsearch, Roots, Stimulants.

14328-69
IN VIVO AND IN VITRO REACTIONS OF 1,1-DIMETHYLAMINO SUCCINAMIC ACID (B-9, ALAR) AND RELATED SUBSTANCES.
R M Sachs K Ryugo
Hortscience 3(2,SUMMER):124-125
1968 SB1.H6
Beans, Biology, Culture media, Leaves, Peas, Research, Succinic acid, 2,2-dimethylhydrazide.

14329-69
ECONOMIC EFFECT AND CONTROL OF WOOD-BORING INSECTS IN FRUIT TREES.
L J Saliba
Int Pest Contr 10(6,NOV-DEC):18,21-23 REF
1968 79.8 P432
Apples, Bark, Chemical control (pests), Control equipment, Economics, Fruit culture, Larvae, Pears, Pesticide residucs, Spraying, Wood borers.

14330-69
MOISTURE CORROSION, A NEW CORROSIVE METHOD. (GE)
E Schrader
Gesunde Pflanzen 19(8):165-167
Aug 1967 464.8 G33
Barley, Chemical reactions, Corrosion, Oats, Rye, Seeds, Soil moisture, Wheat.

14331-69
IMPORTANCE OF INDUSTRY AND LABOR TO PLANT CARE IN FARM MANAGEMENT. (GER)
W Stohr
Gesunde Pflanzen 19(7):133-140
Jul 1967 464.8 G33
Agricultural economics, Agricultural industries, Agricultural labor, Chemical control (plant diseases), Chemical control (weeds), Climate, Corn, Farm management, Fungus diseases (plants), Grain, Plant protection, Potatoes, Rape, Turnips, Weeds.

14332-69
VEGETATIVE AND FRUITING RESPONSES OF PECAN (CARYA ILLINOENSIS KOCH) TO HEADING BACK AND N-DIMETHYLAMINO SUCCINAMIC ACID. (ABSTRACT).
J B Storcy G Madden G Garza
Hortscience 3(2,SUMMER):126
1968 SB1.H6
Carya illinoensis, Crop yields, Harvesting, Physiology, Research, Succinic acid, 2,2-dimethylhydrazide, Vegetation.

14333-69
DEGRADATION OF PURE AFLATOXIN BY TETRAHYMENA PYRIFORMIS.
D J Teunisson J A Robertson
Appl Microbiol 15(5):1099-1103
Sep 1967 448.3 AP5
Aflatoxin, Assay, Cells, Fungi, Microbiology, Physiology, Tetrahymena, Time, Ultraviolet rays.

14334-69
BRUSSELS SPROUTS GROWTH AND PRODUCTION AS INFLUENCED BY N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR). (ABSTRACT).
D R Tompkins R A Norton
Hortscience 3(2,SUMMER):100
1968 SB1.H6

Brussels sprouts, Harvesting, Plant regulators, Research, Spraying, Sueeinie aeid, 2,2-dimethylhydrazide.

14335-69
THE EFFECTS OF ALAR ON RED TART CHERRIES (PRUNUS CEREASUS).
C R Unrath A L Kenworthy
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Harvesting, Morphology, Physiology, Research, Sour eherries, Sueeinie aeid, 2,2-dimethylhydrazide.

14336-69
THE LOW MAXIMUM TEMPERATURE FOR GROWTH OF THE PSYCHROPHILE SCLEROTINIA BOREALIS; EVIDENCE FOR THE UNCOUPLING OF GROWTH FROM RESPIRATION.
E W B Ward
Can J Bot 46(4):385-390
Apr 1968 470 C16C
Cells, Plant physiology, Research, Respiration, Temperature.

14337-69
REPELLING PHEASANTS FROM SPROUTING CORN WITH A CARBAMATE INSECTICIDE.
R R West R B Brunton D J Cunningham
J Wildlife Manage 33(1):216-219
Jan 1969 410 J827
Bird eontrol, Carbamates, Chemieal eontrol (pests), Corn, Costs, Inseet repellents, Inseetieides, Methylthio)-3,5-xylyl methylearbamate, 4-(, Pheasants, Produetion eeonomies, Seed treatment.

14338-69
EFFECT OF N-DIMENTHYLAMINO SUCCINAMIC ACID (ALAR) ON VEGETABLE GROWTH OF CHILE PEPPER (CAPSICUM FRUTESCENS) PLANTS. (ABSTRACT).
G G Wilbert R M Nakayama
Hortscience 3(2,SUMMER):101
1968 SB1.H6
Bush redpeppers (vegetable), Plant anatomy, Plant growth inhibitors, Research, Sueeinie aeid, 2,2-dimethylhydrazide.

DISEASES

14339-69
THE INTERRELATIONSHIP OF RESISTANCE AND SUSCEPTIBILITY OF COTTON TO VERTICILLIUM ALBO-ATRUM AND FUSARIUM OXYSPORUM F. SP. VASINFECTUM AS INFLUENCED BY SOIL TEMPERATURE. (ABSTRACT).
A Abdel-Raheem L S Bird
Phytopathology 58(6):725
Jun 1968 464.8 P56
Cotton, Fungus diseases (plants), Fusarium oxysporum vasinfeetum, Plant disease resistanee, Soil temperature, Verticillium albo-atrum, Wilt.

14340-69
BACTERIAL RUST ON SOUR CHERRIES AND PEARS. (GE)
Anonymous
Brunswick Biol Bundesanst Land-forstwirtsch Merkbl 1(28).5P.
Feb 1968 464.9 B833M
Baeterial diseases (plants), Diagnosis, Fruit, Illustrations, Plant injuries, Pseudomonas, Rainfall.

14341-69
NARROW LEAVES REDUCE BOLL ROT.
Anonymous
Cotton 4(6):24
Jun 1968 72.8 C8225
Boll rot, Cotton, Leaves, Plant breeding, Plant disease resistanee, Plant diseases.

14342-69
THE ETIOLOGY, INCLUDING NUTRITIONAL CONSIDERATIONS, OF PASSION FRUIT BROWN SPOT IN HAWAII.
M Aragaki S Nakata C Long
Plant Dis Rep 53(10):789-792
Oet 1969 1.9 P69P
Brown spot, Chemieal eontrol (plant diseases), Fertilizers, Fungieides, Fungus diseases (plants), Granadilla, Maneb, Plant diseases, Plant nutrition, Triazines.

14343-69
SOIL CONDITION AND THE VIOLET AND WHITE ROOT ROT DISEASES OF FRUIT TREES. (JA)
T Arami
Tokyo Nat Inst Agr Sci Bull Ser C (plant Pathol Entomol) (SER.C)(21):1-109 REF
Mar 1967 464.9 C433
Chemieal eontrol (plant diseases), Fungus diseases (plants), Helieobasidium mompa, Hydrogen-ion eoneentration, Morus, Pears, Plant eeology, Plant physiology, Population, Rosellinia neeatrix, Soils, Surveys, Temperature, Violet root rot, White root rot. English summary

14344-69
INTERACTIVE EFFECTS OF GIBBERELLIC ACID AND ALAR ON BUSH BEAN GROWTH. (ABSTRACT).
A R Attarian
Hortscience 3(2,SUMMER):98
1968 SB1.H6
Chemieals, Gibberellie aeid, Greenhouse eulture, Leaves, Plant physiology, Research, Spraying, Sueeinie aeid, 2,2-dimethylhydrazide.

14345-69
NATURE AND INHERITANCE OF RESISTANCE TO RED CLOVER VEIN MOSAIC VIRUS IN PISUM SATIVUM. (ABSTRACT).
J R Baggett J D Tsai
Hortscience 3(2,SUMMER):107
1968 SB1.H6
Breeding, Environment, Greenhouses, Mosaie, Physiology, Pisum sativum, Virus diseases (plants).

14346-69
VERTICILLIUM SPP. AND ASSOCIATED FUNGI FROM CERTIFIED POTATO SEED TUBERS.
C H Beekman G J Stessel F L Howard
Plant Dis Rep 53(10):771-773
Oet 1969 1.9 P69P
Fungus diseases (plants), Potatoes, Surveys, Verticillium.

14347-69
TEN YEARS OF INVESTIGATIONS WITH POTATO VIRUS IN HANNOVER. (GE
G Borehardt
Gesunde Pflanzen 19(8):157-160
Aug 1967 464.8 G33
Gibberellins, Mosaie, Potatoes, Virus diseases (plants), Virus X, Virus Y.

14348-69
ON THE TOLERANCE OF WHEAT AGAINST SEPTORIA NODORUM BERK. (GE
Broennimann
Phytopathol Z 62(4):365-370
Aug 1968 464.8 P562
Plant disease resistanee, Plant diseases, Plant physiology, Research, Septoria nodorum, Wheat. English summary.

14349-69
LIVING HAUSTORIA AND HYPHAE OF ERYSIPHE GRAMINIS F.SP. HORDEI WITH INTACT AND PARTLY DISSECTED HOST CELLS OF HORDEUM VULGARE.
W R Bushnell J Dueek J B Rowell
Can J Bot 45(9):1719-1732 REF
Sep 1967 470 C16C
Barley, Cells, Erysiphe graminis, Fungus diseases (plants), Hyphae, Parasitism.

14350-69
THE CAUSES OF SAPSTAIN IN RED BEECH.
J A Buteher
New Zeal J Bot 6(3):376-385 REF
Sep 1968 450 N48
Ceratoeystis, Chemieal eontrol (plant diseases), Drying, Fagus, Fungus diseases (plants), Lumber preservatives, Sap stain (wood), Sphaeropsidales.
Control of sapstain in red beech lumber in Australia with ehemieal dips and foreed air drying is diseussed. Speeies of Ceratoeystis, Phialophora and Sphaeropsidales (fungi) were identified as the etiologieal agents.

14351-69
CULTURAL FACTORS IN RELATION TO COLLAR ROT CONTROL OF GROUNDNUT.
J S Chohan S P Kapoor
Punjab Agr Univ J Res 4(4):536-542 REF
Dee 1967 S19.P8
Aspergillus niger, Chemieal eontrol (plant diseases), Collar rot (peanuts), Fungieides, Fungus diseases (plants), Peanuts, Research.

14352-69
INTERNAL BROWN SPOT--A CONDITION IN YAMS IN BARBADOS.
D G Coursey
Agr Soc Trinidad Tobago J 67(4):473-482
Dee 1967 8 T73
Brown spot, Plant disease eontrol, Plant disease transmission, Virus diseases (plants), Yams.

14353-69
THE IMPORTANCE OF PRECEEDING CROP-DEPENDENT SHIFTS IN THE MICRO FLORA OF THE SOIL. I. THE INFLUENCE OF SOIL FUNGI ON THE ROOT DEVELOPMENT OF WHEAT, PEAS, AND RAPE. (GE)
K H Domseh W Gams
Phytopathol Z 63(1):64-74 REF
Sep 1968 464.8 P562
Chlorella, Crop rotation, Fungus diseases (plants), Peas, Plant physiology, Rape, Research, Roots, Soil fungi, Soil mieroorganisms, Wheat. English summary.

14354-69
THE PROBLEM OF SOWBANE MOSAIC VIRUS CONTAMINATION.
D J Engelbreeht M H V Regenmortel
Phytopathol Z 63(1):10-14
Sep 1968 464.8 P562
Chenopodium quinoa, Diagnosis, Latent virus (apples), Mosaie, Plant disease transmission, Serologieal tests, Virus diseases (plants). German summary.

14355-69
STUDIES ON VIRUS DISEASES OF STRAWBERRRIES IN THE WESTERN CAPE PROVINCE. I. DEGENERATION OF LOCALLY BRED STRAWBERRY CULTIVARS.
D J Engelbreeht
S Afr J Agr Sci 10(2):345-352
Jun 1967 24 SU3
Chaetosiphon fragaefolii, Crinkle (strawberries), Inseet veetors, Strawberries, Virus diseases (plants), Yellow edge (strawberries).

14356-69
CHENOPODIUM AS HOST TO VIRUSES TRANSMITTED FROM APPLE, PEAR AND GRAPEVINE.
P J Engelbreeht L D Wolfswinkel
S Afr J Agr Sci 10(2):419-428 REF
Jun 1967 24 SU3
Apples, Chenopodium, Grapes, Pears, Sap, Veetors, Virus diseases (plants).

14357-69
VERTICILLIUM WILT OF COTTON--THE SITUATION IN THE NAMOI VALLEY.
G Evans
Agr Gaz New S Wales 78(PT 10):580-584
Oet 1967 23 N472

Air-borne plant diseases, Cotton, Crop losses, Cultural control (plant diseases), Plant disease resistance, Soilpborne plant diseases, Verticillium, Wilt (cotton).

Crop rotation and the development of resistant strains of cotton are discussed as controls of verticillium wilt of cotton in Australia.

14358-69
EFFECTS OF CERCOSPORA LEAF SPOT AND DATES OF HARVEST ON SUGAR BEET VARIETIES WITH OR WITHOUT MANEB TREATMENT.
R E Finker D E Farus
Amer Soc Sugar Beet Technol J 14(8):643-663
Jan 1968 66.9 AM35J
Cercospora, Chemical control (plant diseases), Crop varieties, Crop yields, Fungicides, Fungus diseases (plants), Harvesting date, Leaf spot, Maneb, Plant biochemistry, Sugar beets, Thiocarbamates.

14359-69
VIRULENCE OF UREDIAL AND AECIAL ISOLATES OF PUCCINIA CORONATA CORDA F.SP. AVENAE IDENTIFIED IN CANADA FROM 1952 TO 1966.
G Fleischmann
Can J Bot 45(9):1693-1701
Sep 1967 470 C16C
Crown rust (oats), Oats, Plant disease resistance, Puccinia coronata, Time, Virulence.

14360-69
A TRANSMISSIBLE DISORDER OF GLADIOLUS FLOWERS.
J L Forsberg W Hartstirn
Plant Dis Rep 53(10):818-819
Oct 1969 1.9 P69P
Gladiolus, Plant disease transmission, Plant galls, Virus diseases (plants).

14361-69
POLYPHENOLS AND DISCOLORATION IN THE ELM DISEASE INVESTIGATED BY HISTOCHEMICAL TECHNIQUES.
C Gagnon
Can J Bot 45(11):2119-2124 REF
Nov 1967 470 C16C
Histochemistry, Phenols, Plant diseases, Research, Ulmus americana.

14362-69
EFFECTS OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR) ON YIELD, SIZE, MATURATION, AND QUALITY OF PEACHES WITH REFERENCE TO ITS USE IN ADAPTING FRUIT FOR MECHANICAL HARVESTING. (ABSTRACT).
C E Gambrell E T Sims W H Rhodes
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Color, Crop yields, Equipment, Harvesting, Peaches, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14363-69
INVESTIGATIONS CONCERNING A ROOT ROT ON PHALAENOPSIS HYBRIDS AND ITS CAUSATIVE AGENT (FUSARIUM OXYSPORUM). (GE)
W Gerlach G Borchardt
Phytopathol Z 63(1):30-39 REF
Sep 1968 464.8 P562
Fungus diseases (plants), Fusarium oxysporum, Morphology, Phalaenopsis, Plant disease control, Research. English summary.

14364-69
LUCERNE BUD MITE RECORDED FROM NEW SOUTH WALES.
F A Gibson
Agr Gaz New S Wales 78(PT 10):576-577
Oct 1967 23 N472
Aceria, Alfalfa, Insect vectors, Virus diseases (plants).

The association of the lucerne bud mite, Medicago sativa and the virus disease, witches' broom in Australia is discussed.

14365-69
IDENTIFICATION OF THE VIRUS CAUSING PAPAW YELLOW CRINKLE WITH TOMATO BIG BUD VIRUS BY TRANSMISSION TESTS.
R S Grebcr
Queensland J Agr Anim Sci 23(2):147-153 REF
Jun 1966 23 Q37
Caricaceae, Clover, Cuscuta, Phyllody, Tomatoes, Virus diseases (plants).

14366-69
FUNGAL FOES THAT MENACE GINGER CROP.
G K Gupta B R Verma
Indian Farming 16(1):15
Apr 1966 22 IN283
Fungicides, Fungus diseases (plants), Fusarium, Phyllosticta, Pythium, Zingiber officinale.

14367-69
THE EFFECT OF INOCULUM CONCENTRATION ON VIRUS MULTIPLICATION IN CUCUMBER COTYLEDONS. II. CUCUMBER MOSAIC AND TOBACCO MOSAIC VIRUSES.
P Havranek
Acta Virol 11(6):538-543
Nov 1967 448.3 AC85
Cucumbers, Immunization, Inoculum, Mosaic, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

14368-69
AN APPARENTLY TWO-FACTOR DOSE-RESPONSE DEPENDENCE IN LUCERNE MOSAIC VIRUS ASSAY.
P Havranek J Zavada
Acta Virol 11(6):544-550 REF
Nov 1967 448.3 AC85
Alfalfa, Biological assay, Culture media, Mosaic, Necrosis, Plant galls, Tobacco, Virus diseases (plants).

14369-69
REMOVAL OF PSEUDOMONADS FROM PLANT LEAVES AND MEASUREMENT OF THEIR IN VIVO BETA-GLUCOSIDASE SYNTHESIS.
D C Hildebrand M N Schroth
Phytopathology 58(3):354-358
Mar 1968 464.8 P56
Bacterial diseases (plants), Centrifuges, Cowpeas, Glucosidases, Hydrogen-ion concentration, Leaves, Parasitism, Plant biochemistry, Pseudomonas putida, Pseudomonas savastanoi, Pseudomonas syringae, Serratia marcescens, Tobacco.

14370-69
EVIDENCE FOR THE RELEASE OF 28 S RNA FROM TURNIP YELLOW MOSAIC VIRUS HEATED IN VITRO.
J H Hitchborn
J Gen Virol (3,PT 1):137-140 REF
Jul 1968 QR360.A1J6
Culture media, Heat, Methodology, Mosaic (turnips), Research, Ribonucleic acid, Temperature, Virus diseases (plants).

14371-69
ALTERNARIA LEAF SPOT OF LOLIONDO (OLEA WELWITSCHII (KNOBL.) GILG. AND SCHELLENB.).
D Hocking
Arusha Trop Pesticides Res Inst Misc Rep 558, 6 P
May 1966 423.92 G7922
Alternaria porri, Alternaria tenuis, Black mildew, Cladosporium, Dothidea, Fungus diseases (plants), Glomerella, Leaf spot, Meliola petiolaris, Olea weltwitschii.

14372-69
LEVELS OF SHIKIMATE AND FOLATE IN PRIMARY LEAVES OF WHEAT AND IN UREDOSPORES OF LEAF RUST.
D W Hollomon A Fuchs R Rohringer
Can J Bot 45(9):1771-1773 REF
Sep 1967 470 C16C
Folic acid, Fungus diseases (plants), Leaf rust (wheat), Plant biochemistry, Shikimic acid, Wheat.

14373-69
STUDIES ON THE PATHOLOGICAL ANATOMY OF RICE PLANTS INFECTED BY HELMINTHOSPORIUM ORYZAE, I. BEHAVIOR OF THE CAUSAL FUNGUS ON THE COLEOPTILE OF RICE SEEDLINGS AND ITS ULTRAFINE STRUCTURE. (JA)
O Horino S Akai
Phytopathol Soc Jap Ann 34(1):51-55 REF
Jan 1968 464.9 P562
Cell wall, Coleoptile, Fungus diseases (plants), Helminthosporium oryzae, Immunity, Microscopy, Mycology, Plant anatomy, Plant cytology, Plant hardiness, Rice, Seed germination, Seedlings. English summary

14374-69
CRYOPRESERVATION AND PATHOGENICITY OF SELECTED ISOLATES OF COLLETOTRICHUM, RHIZOCTONIA, AND PHYTOPHTHORA.
S W Hwang A L Anderson G C Papavizas R H Converse
Phytopathology 58(3):362-364 REF
Mar 1968 464.8 P56
Beans, Colletotrichum lindemuthianum, Freeze drying, Fungus diseases (plants), Nitrogen, Phytophthora fragariae, Plant morphology, Radishes, Rhizoctonia, Rhizoctonia solani, Soybeans, Sugar beets, Wheat.

14375-69
PLANT CARE ON THE NORTH SEA COAST. (GE)
W Ihlemann
Gesunde Pflanzen 19(8):169-171
Aug 1967 464.8 G33
Climate, Fungus diseases (plants), Herbicides, Humidity, Plants, Soil moisture, Tillage.

14376-69
INFLUENCE OF HYDROSTATIC PRESSURE UPON GERMINABILITY OF THE SPORES OF SOME RICE-PARASITIC FUNGI EFFECTS OF PHYSICAL FACTORS UPON PLANT DISEASES. III. (JA)
H Ikegami I Takagi
Phytopathol Soc Jap Ann 33(3):144-149
Jun 1967 464.9 P562
Cochliobolus miyabeanus, Conidia, Fungus diseases (plants), Hydrostatics, Piricularia oryzae, Plant physiology, Rice, Seed germination, Ustilaginoidea virens. Abstract in English

14377-69
SOIL-BORNE WHEAT MOSAIC VIRUS FROM POA ANNUA L., A NEW HOST. (JA)
T Inaba Y Saito
Phytopathol Soc Jap Ann 34(1):40-45
Jan 1968 464.9 P562
Electron microscopy, Grain, Leaves, Mosaic, Plant disease transmission, Poa annua, Polymyxa graminis, Sap, Seed germination, Seedlings, Soilborne plant diseases, Virus diseases (plants), Wheat. Abstract in English.

14378-69
YELLOW DWARF OF PEA AND BROADBEAN CAUSED BY MILK-VETCH DWARF VIRUS. (JA)
T Inouye K Mitsuhata
Phytopathol Soc Jap Ann 34(1):28-35 REF
Jan 1968 464.9 P562
Aphididae, Astragalus, Broadbeans, Dwarf disease, Epidemiology, Host indexing (plants), Peas, Plant disease transmission, Plant diseases, Temperature, Time, Virus diseases (plants), Yellow dwarf. Abstract in English

14379-69
EVIDENCE OF HYPHAL GROWTH OF CRONARTIUM QUERCUUM IN THE PINE-HOST CAMBIUM.
F F Jewell
Plant Dis Rep 53(10):793-794 REF
Oct 1969 1.9 P69P
Cambium, Cronartium quercuum, Fungus diseases (plants), Pinus, Plant physiology.

14380-69
VEGETABLE DRY ROT AND PHYTOPROG-SERVICE IN NORTH-HANOVER 1968. (GE)
Kabiersch
Gesunde Pflanzen 20(11):252-254
Nov 1968 464.8 G33
Biochemistry, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Phytophthora, Potatoes, Spraying.

14381-69
PHYTOPHTHORA-PROGNOSIS AND -CONTROL IN THEORY AND PRACTICE. (GE
Kabiersch
Gesunde Pflanzen 19(8):163-165
Aug 1967 464.8 G33
Chemical control (plant diseases), Fungus diseases (plants), Phytophthora.

14382-69
ON THE LONGEVITY OF CONIDIA OF CUCUMBER DOWNY MILDEW FUNGUS, WITH SPECIAL REFERENCE TO THE INFLUENCE OF SUNLIGHT. (JA
T Kajiwara Y Iwata
Phytopathol Soc Jap Ann 34(2):85-91 REF
Mar 1968 464.9 P562
Conidia, Cucumbers, Downy mildew, Fungus diseases (plants), Irradiation, Light, Mycology, Pseudoperonospora cubensis, Seed germination, Temperature, Time. Abstract in English

14383-69
A CONTRIBUTION TO STUDIES ON THE BIOLOGY AND CONTROL OF APPLE MILDEW (PODOSPHAERA LEUCOTRICHA (ELL. AND EV.) SALM.).
H Kaspers
Pflanzenschutz Nachr Bayer 20(4):687-702
1967 464.8 H67AE
Apples, Biology, Environment, Fungus diseases (plants), Greenhouse culture, Mildew, Plant disease control, Podosphaera leucotricha, Seed germination.

14384-69
EPIDEMIOLOGY OF TEA BLISTER BLIGHT (EXOBASIDIUM VEXANS). THE GENUS GRAPHELYSIA HAMPSON, 1911 (LEPIDOPTERA -HETEROCERCA).
A Kerr R L De Silva
Ceylon Tea Res Inst Tea Quart 40(1):9-18
Mar 1969 68.18 C33
Arctiidae, Epidemiology, Exobasidium vexans, Fungus diseases (plants), Insect color, Insect physiology, Insect taxonomy, Plant disease transmission, Reproductive organs, Tea.

14385-69
ECOLOGICAL STUDIES ON THE SOFT-ROT BACTERIA OF VEGETABLES. III. APPLICATION OF IMMUNOFLUORESCENT STAINING FOR THE DETECTION AND THE COUNTING OF ERWINIA AROIDEAE IN SOIL. (JA
T Kikumoto M Sakamoto
Phytopathol Soc Jap Ann 33(3):181-186 REF
Jun 1967 464.9 P562
Bacterial diseases (plants), Bacterial soft rot, Cabbage, Carrots, Cells, Erwinia aroideae, Fluorescent dyes, Immunology, Plant ecology, Soilborne plant diseases, Vegetables. Abstract in English

14386-69
STUDIES ON THE MONILIA DISEASE OF THE APPLE CAUSED BY MONILINIA MALI (TAK.) NHETZEL. (JA)
J Kimura
Phytopathol Soc Jap Ann 33(3):126-128
Jun 1967 464.9 P562
Apples, Fruit, Fungus diseases (plants), Moniliasis, Sclerotinia mali.

14387-69
A VEINBANDING VIRUS OF GROUNDNUTS, ARACHIS HYPOGAEA L.
P J Klesser
S Afr J Agr Sci 10(2):515-528 REF
Jun 1967 24 SU3
Aphis craccivora, Insect vectors, Peanuts, Vein banding, Virus diseases (plants).

14388-69
BEAN YELLOW MOSAIC AND TOBACCO RINGSPOT VIRUS ISOLATED FROM CROTALARIA (CROTALARIA SPECTABILIS). (JA)
Y Komuro M Iwaki
Phytopathol Soc Jap Ann 34(1):9-15 REF
Jan 1968 464.9 P562
Beans, Crotalaria spectabilis, Electron microscopy, Host indexing (plants), Ring spot, Taxonomy, Tobacco, Virus diseases (plants), Yellow mosaic. Abstract in English

Abstract: The host range was: aster, zinnia, Nicotiana tabacum (bright yellow, xanthi), N. glutinosa, petunia, okra, broad bean, crotalaria, bean, soybean, turnip, New Zealand spinach, Gomphrena globosa, C. amaranticolor.

14389-69
STRAINS OF TOBACCO MOSAIC VIRUS CONTAINED IN CIGARETTES, WITH ESPECIAL REFERENCE TO THE INFECTION SOURCE FOR MOSAIC DISEASE OF TOMATO. (JA)
Y Komuro M Iwaki
Phytopathol Soc Jap Ann 34(2):98-102 REF
Mar 1968 464.9 P562
Cigarette industry, Mosaic, Plant biochemistry, Tobacco, Tobacco mosaic virus, Tomatoes, Virus diseases (plants). Summary in Japanese

14390-69
MILDEWS THAT MIGHT MAR YOUR OPIUM POPPY.
K L Kothari
Indian Farming 16(7):23-24
Oct 1966 22 IN283
Chemical control (plant diseases), Cultural control (plant diseases), Mildew (plants), Papaver somniferum.

14391-69
EFFECT OF SOIL FUMIGANTS ON CONTROL OF PEA ROOT ROT PATHOGENS.
J M Kraft W A Haglund T P Reiling
Plant Dis Rep 53(10):776-780 REF
Oct 1969 1.9 P69P
Chemical control (plant diseases), Chlorinated hydrocarbons, Chloropicrin, Dichloropropene, 1,3-, Fungus diseases (plants), Peas, Root rot, Soil fumigation, Telone.

14392-69
COMPUTATION OF RESULTS OF CROP PROTECTION EXPERIMENTS BY THE METHOD OF TOWNSEND AND HEUBERGER.
W F Kremer G Unterstenhofer
Pflanzenschutz Nachr Bayer 20(4):625-628
1967 464.8 H67AE
Apples, Celery, Cercospora, Chemical control (plant diseases), Crop yields, Fungicides, Fungus diseases (plants), Leaves, Peronospora, Venturia inaequalis. From the Townsend and Heuberger method

14393-69
AN ELECTRON MICROSCOPIC OBSERVATION OF THE SURFACE STRUCTURE OF CONIDIA OF ERYSIPHE GRAMINIS HORDEI. (JA)
H Kunoh S Akai
Mycol Soc Jap Trans 8(2):77-79
01 Scp 1967 451 N622
Barley, Conidia, Electron microscopy, Erysiphe graminis hordei, Fungus diseases (plants), Mycology, Plant physiology, Powdery mildew.

14394-69
BREEDING FOR DISEASE RESISTANCE AND YIELD IMPROVEMENT IN FLUE-CURED TOBACCO. (AF)
M P Lamprecht
S Afr J Agr Sci 10(1):41-50
Mar 1967 24 SU3
Crop yields, Flue-cured tobacco, Fungus diseases (plants), Meloidogyne incognita, Plant breeding, Plant disease resistance, Plant nematodes, Powdery mildew, Tobacco. English and French abstracts

14395-69
WITCHES' BROOM OF BERBERIS. (GE)
K Lohwag
Pflanzenarzt 21(5):66-67
01 May 1968 464.9 P482
Berberis, Fungus diseases (plants), Lolium perenne, Rust (wheat), Uredinales.

14396-69
IDENTIFICATION OF A BACTERIAL STRAIN PSEUDOMONAS SOLANACEARUM E. F. SM. OF TOBACCO (NICOTIANA TABACUM L.) IN COLOMBIA. (SP)
J C Lozano T H D Thurston
Agr Trop 23(5):289-294
May 1967 26 AG8
Bacterial diseases (plants), Biochemistry, Pseudomonas solanacearum, Tobacco. English abstract

14397-69
IS AN EARLY INFECTION BY PERONOSPORA TABACINA ADAM CONTROLABLE IN THE FIELD . (GE)
W Luders
Gesunde Pflanzen 19(5):89-93
May 1967 464.8 G33
Chemical control (plant diseases), Field crops, Fungicides, Fungus diseases (plants), Maneb, Peronospora tabacina, Polyethylene thiuram sulfides, Tobacco, Zinc propylenebis(dithiocarbamate), Zineb.

14398-69
EFFECT OF DIFFERENT MICRONUTRIENT SPRAYS ON CHLOROSIS, GRANULATION, FRUIT FALL, YIELD AND FRUIT QUALITY OF SWEET ORANGES VAR. BLOOD RED.
H R Manchanda
Punjab Agr Univ J Res 4(4):508-515
Dec 1967 S19.P8
Chemical control (plant diseases), Chlorosis (citrus), Crop yields, Oranges, Research, Spraying.

14399-69
ELECTRON MICROSCOPY OF UREDOSPORES OF MELAMPSORA LINI AND OF RUST-INFECTED FLAX.
M S Manocha M Shaw
Can J Bot 45(9):1575-1582 REF
Sep 1967 470 C16C
Electron microscopes, Flax, Fungus diseases (plants), Melampsora lini, Rust (flax), Uredospores.

14400-69
THREE YEARS OF TESTS WITH NEW ANTI-PERONOSPORIC PREPARATIONS. (IT)
A Martinoli
Giornate Fitopatol 173-177
26 Mar 1967 SB599.G5
Botrytis cinerea, Chemical control (plant diseases), Folpet, Fungus diseases (plants), Grape vineyards, Grapes, Oidium, Peronosporales, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cisN.

14401-69
PRODUCTION OF TOXINS AND PECTOLYTC ENZYMES BY TWO ISOLATES OF SCLEROTIUM BATATICOLA TAUB. AND THEIR ROLE IN PATHOGENESIS.
S B Mathur
Phytopathol Z 62(4):327-333
Aug 1968 464.8 P562
Enzymes, Fungus diseases (plants), Pectins, Plant extracts, Sclerotium bataticola, Sunflowers, Toxins. German summary

14402-69
CONTROLLING EFFECT OF PHENYLHYDRAZINE DERIVATIVES ON RICE BLAST IN RELATION TO THE STRUCTURAL MODIFICATIONS. (JA)
K Matsuura I Sumina Y Kitamura Y Usui
Phytopathol Soc Jap Ann 33(3):132-137

Jun 1967 464.9 P562
Blast, Chemical control (plant diseases), Fungus discases (plants), Greenhouse culturc, Hydrazine compounds, Injections, Phenylhydrazine, Plant biochemistry, Plant physiology, Rice, Seed germination, Seedlings, Spraying. Abstract in English

Abstract: Controlling effect in relation to the structural modifications of chlorophenylhydrazine and beta-acylchlorophenylhydrazine derivativcs.

14403-69
PHYLLACHORA DOMINGENSIS AND PHYLLACHORA SIMPLEX--NEW REPORTS FOR THE CONTINENTAL.
F D Matthews
Plant Dis Rep 53(10):820
Oct 1969 1.9 P69P
Fungus diseases (plants), Plant geography.

14404-69
ON FUSARIUM OXYSPORUM F. SP. LAGENARIAE N. F. CAUSING WILT OF LAGENARIA VULGARIS VAR. HISPIDA. (JA)
T Matuo I Yamamoto
Mycol Soc Jap Trans 8(2):61-63
01 Sep 1967 451 N622
Calabash gourds, Fungus diseases (plants), Fusarium oxysporum lagenariae, Gourds, Plant morphology, Vegetables, Wilt disease (plants).

14405-69
A LOW-VOLUME POSTHARVEST SPRAY OF BENOMYL PREVENTS ASCOSPORE PRODUCTION IN APPLE LEAVES INFECTED BY VENTURIA INAEQUALIS.
D L McIntosh
Plant Dis Rep 53(10):816-817
Oct 1969 1.9 P69P
Apples, Benomyl, Chemical control (plant diseases), Fungicides, Venturia inaequalis.

14406-69
A NEW LEAF SPOT DISEASE OF GARDENIA JASMINOIDES FROM INDIA.
V G Mhaiskar
Phytopathol Z 62(4):390-392
Aug 1968 464.8 P562
Gardenia, Leafspot, Phyllosticta, Plant diseases, Research, Taxonomy. German summary

14407-69
TOBACCO DISEASES IN VENEZUELA, COSTA RICO AND NICARAGUA.
C R Miller
Plant Dis Rep 53(10):823-824
Oct 1969 1.9 P69P
Fungus diseases (plants), Plant diseases, Surveys, Tobacco, Virus diseases (plants).

14408-69
CONTRIBUTION TO THE INVESTIGATION OF CHEMOENDOTHERAPY OF SUGAR BEET INFECTED BY CERCOSPORA BETICOLA SACC. (CZ)
M Miric
Zastita Bilja 12(91-92):267-276
1966 464.8 Z1
Cercospora beticola, Fungicides, Fungus discases (plants), Greenhouse culturc, Mycelia sterilia, Plant biochemistry, Spores, Sugar beets. English summary

14409-69
AN EVIDENCE FOR THE MULTIPLICATION OF RICE DWARF VIRUS IN THE VECTOR CELL CULTURES INOCULATED IN VITRO.
J Mitsuhashi S Nasu
Appl Entomol Zool 2(2):113-114
Jun 1967 SB599.A6
Cells, Culture media, Dwarf diseasc (ricc), Injcctions, Insect vectors, Nephotettix cincticeps, Research, Virus diseases (plants).

14410-69
A NEW BACTERIAL LEAF SPOT OF ANTIRRHINUM SEEDLINGS CAUSED BY A SUBSPECIES OF PSEUDOMONAS FLUORESCENS MIGULA, 1895.
M L Moffett
Queensland J Agr Anim Sci 23(2):121-132 REF
Jun 1966 23 Q37
Antirrhinum, Bacterial diseascs (plants), Biochemistry, Host relationships, Leaf spot, Pseudomonas, Taxonomy.

14411-69
BACTERIAL LEAF SPOT OF CAPE GOOSEBERRY IN QUEENSLAND.
M L Moffett D S Teakle
Queensland J Agr Anim Sci 23(2):133-145 REF
Jun 1966 23 Q37
Bacterial diseases (plants), Biochemistry, Gooseberries, Leaf spot, Taxonomy, Xanthomonas.

14412-69
RUST OF STONE FRUITS.
Agr Gaz New S Wales 78(PT 12):BACK COVER
Dec 1967 23 N472
Bordeaux mixture, Chemical control (plant diseascs), Fungicidcs, Fungus diseases (plants), Rust (trees), Sulfur compounds, Tranzscheliclla, Zineb.

14413-69
PEACH LEAF CURL (TAPHRINA).
Agr Gaz New S Wales 78(PT 7):BACK COVER
Jul 1967 23 N472
Bordeaux mixture, Chemical control (plant diseases), Fungus diseases (plants), Leaf curl, Peaches, Phytopathology, Taphrina deformans.

Chemical control of Taphrina deformans, the fungal agent of peach leaf curl in Australia is discussed.

14414-69
COMMON SCAB AND RHIZOCTONIA DISEASE OF POTATO.
Agr Gaz New S Wales 78(PT 5):BACK COVER
May 1967 23 N472
Actinomycetes, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Rhizoctonia, Scab (potatoes).

14415-69
LEAFSPOT OF CUCURBITA PEPO CAUSED BY ALTERNARIA CUCUMERINA. (JA)
N Nishihara
Phytopathol Soc Jap Ann 34(2):152-155 REF
Jul 1968 464.9 P562
Alternaria cucumerina, Fungus diseases (plants), Leaf spot, Pumpkins, Vegetables.

14416-69
HELMINTHOSPORIUM LEAFSPOT OF BUFFALOGRASS IN JAPAN. (JA)
N Nishihara
Phytopathol Soc Jap Ann 33(3):197-200
Jun 1967 464.9 P562
Buchloe dactyloides, Fungus diseases (plants), Grasses, Helminthosporium buchloes, Leaf spot.

14417-69
COMPARISON OF ABSORBED BIPHENYL IN ORANGES AND BIPHENYL VAPOR IN CONTROLLING DECAY, MYCELIAL GROWTH, AND SPORULATION BY PENICILLIUM DIGITATUM.
S M Norman D C Fousc C C Craft
Plant Dis Rep 53(10)780-784
Oct 1969 1.9 P69P
Biphenyl, Chemical control (plant discases), Fungus diseascs (plants), Oranges, Penicillium digitatum.

14418-69
PEROXIDASE ISOZYMES IN VIRUS-INFECTED PLANTS.
A Novacky R E Hampton
Phytopathology 58(3):301-305 REF
Mar 1968 464.8 P56
Cowpeas, Enzymes, Kidney beans, Mosaic, Mosaic (beans), Mosaic (tobacco), Mung beans, Peroxidases, Ring spot, Streak (tobacco), Tobacco, Virus diseases (plants).

14419-69
INVESTIGATIONS ON THE USE OF THE PARASITIC FUNGUS BEAUVERIA BASSIANA IN THE CONTROL OF PESTS ON FIELD AND FOREST CROPS IN CZECHOSLOVAKIA. (FR)
V Novak A Samsinakova
Entomophaga Mem Hors Ser (2):133-135
1964 421 EN835M
Beauveria bassiana, Biological control (insects), Hylobius abietis, Insect outbreaks, Leptinotarsa decemlineata, Trypodendron lincatum. English summary

14420-69
INTERACTION BETWEEN TWO RACES OF PIRICULARIA ORYZAE IN LESION-FORMATION IN RICE PLANTS AND ACCUMULATION OF FLUORESCENT COMPOUNDS ASSOCIATED WITH INFECTION. (JA)
K Ohata T Kozaka
Tokyo Nat Inst Agr Sci Bull Ser C (plant Pathol Entomol) (SER.C)(21):111-132 REF
Mar 1967 464.9 C433
Chromatography, Fluorescent substances, Leaves, Piricularia oryzae, Plant biochcmistry, Plant injuries, Plant physiology, Rice, Seed germination, Ultraviolet rays, Virus diseases (plants).

14421-69
PHYSIOLOGICAL STRAINS OF PUCCINIA GRAMINIS TRITICI IN COLOMBIA AND ITS IMPLICATIONS. (SP)
N Orjuela J
Agr Trop 23(7):465
Jul 1967 26 AG8
Fungus diseases (plants), Puccinia graminis.

14422-69
PRELIMINARY REPORT ON THE AMINO ACID COMPOSITION OF TMV-C PROTEIN.
N Oshima Y Kanazawa
Phytopathol Soc Jap Ann 34(2):155-157
Jul 1968 464.9 P562
Amino acids, Centrifugation, Leaves, Mosaic, Necrosis, Plant physiology, Proteins, Rorippa sylvestris, Tobacco, Tobacco mosaic virus, Virus diseases (plants). Summary in Japanese

14423-69
THE INDUCTION OF STELAR REDDENING IN STRAWBERRY ROOTS.
A G Otterbacher D Powell C C Zych
Plant Dis Rep 53(10):794-797 REF
Oct 1969 1.9 P69P
Fungus diseases (plants), Phytophthora fragariae, Plant disease resistance, Steles, Strawberries.

14424-69
PHYSIOLOGICAL AND ECOLOGICAL STUDIES ON THE OVERSUMMERING AND OVERWINTERING OF THE STRIPE RUST OF WHEAT AND BARLEY, PUCCINIA STRIIFORMIS WESTEND. (JA)
S Ozoe
Phytopathol Soc Jap Ann 33(3):129-131
Jun 1967 464.9 P562
Barley, Fungus diseases (plants), Hibernation, Plant ecology, Plant hardiness, Plant physiology, Puccinia glumarum striiformis, Stripe rust, Uredinales, Wheat.

14425-69
THE PRESENT STATE OF RICE RESEARCH IN INDIA--DISEASES.
S Y Padmanabhan
Indian Farming 16(6):22-25
Sep 1966 22 IN283
Blast (rice), Fungicides, Helminthosporium, Piricularia, Plant disease resistance, Rice.

14426-69
DAMAGE AND EVOLUTION DISTURBANCE THROUGH WEATHER INFLUENCE. (GER)
M Paetzholdt
Gesunde Pflanzen 19(7):148-150
Jul 1967 464.8 G33
Apples, Climate, Cork rot, Plant injuries, Roots, Seeds, Temperature.

14427-69
DISEASES OF ANNUAL OLEACEAE IN COLOMBIA. (SP)
H Patino C
Agr Trop 23(8):532-539
Aug 1967 26 AG8
Colombia, Olcaeeae, Plant diseases, Surveys.

14428-69
CONTROL OF POWDERY MILDEW OF CUCURBITS WITH SYSTEMIC AND NONSYSTEMIC FUNGICIDES.
A O Paulus F Shibuya J Osgood G W Bohn B J Hall Et Al
Plant Dis Rep 53(10):813-816
Oct 1969 1.9 P69P
Carbonates, Chemical control (plant diseases), Cucurbits, Fungicides, Powdery mildew, Systemic fungicides.

14429-69
A STUDY OF THE BIOLOGY OF PSEUDOPEZIZA JONESII NANNF (PYRENOPEZIZA MEDICAGINIS FUCK) THE CAUSE OF YELLOW BLOTCHES ON LEAVES OF ALFALFA. (CZ)
M Perisie D Stojanovic
Zastita Bilja 12(91-92):183-190
1966 464.8 Z1
Alfalfa, Apothecium, Fungus diseases (plants), Leaves, Plant physiology, Pseudopeziza jonesii, Pseudopeziza medieaginis, Pyenidia, Seed germination. English summary

14430-69
LIMB RUST OF PINE: THE CAUSAL FUNGI.
R S Peterson
Phytopathology 58(3):309-315,MAP REF
Mar 1968 464.8 P56
Cronartium, Fungus diseases (plants), Peridermium, Peridermium filamentosum, Peridermium stalaetiforme, Pinus, Rust.

14431-69
A LEAFSPOT DISEASE OF KENAF IN MARYLAND ASSOCIATED WITH CRISTULARIELLA PYRAMIDALIS.
F G Pollack H E Waterworth
Plant Dis Rep 53(10):810-812
Oct 1969 1.9 P69P
Cristulariella pyramidalis, Fungus diseases (plants), Kenaf, Leaf spot.

14432-69
FUNGICIDES CAN CHECK FRUIT-ROT AND DIE-BACK OF CHILLI.
M Ramalingam C S Krishnamurthy
Indian Farming 16(5):34-35,37
Aug 1966 22 IN283
Bordeaux mixture, Bush redpeppers (vegetable), Crop yields, Diebaek, Fungicides, Rot (redpeppers).

14433-69
PESTICIDE SPRAYING DURING THE RAINS.
D B Reddy
Indian Farming 16(9):34
Dec 1966 22 IN283
Chemical control (inseets), Inseetieide application, Inseetieides, Methodology, Rainfall.

A diseussion of pestieide use in India during the rainy season and suggestions for their applications are given.

14434-69
CURRENT STATUS OF IN VITRO SYNTHESIS OF PLANT VIRUSES.
M E Reichmann J M Clark
Annu Rev Phytopathol 6:295-316 REF
1968 464.8 AN72
Adenosine triphosphates, Amino aeids, Proteins, Ribonuclcic acid, Virus diseases (plants), Viruses.

14435-69
SELECTIVE VAPOR PHASE ACTIVITY OF CHLORONITRO- AND CHLOROBENZENES IN SOIL.
L T Riehardson
Phytopathology 58(3):316-322 REF
Mar 1968 464.8 P56
Chlorinated hydroearbons, Fungi, Fungicides, Pythium ultimum, Rhizoetonia solani, Soil fumigation, Trichoderma viride, Vapors.

14436-69
EVALUATION AND USE OF FUNGICIDES IN COMMERCIAL CULTIVATION OF BARLEY IN COLOMBIA. (SP)
G Robayo J Orjuela H D Thurston
Agr Trop 23(7):455-464 REF
Jul 1967 26 AG8
Barley, Chemieal eontrol (plant diseases), Crop yields, Fungicides, Fungus diseases (plants), Maneb, Nickel, Spraying, Zinc. English abstraet

14437-69
INHERITANCE OF RESISTANCE IN TOMATO (LYCOPERSICON SPP.) TO THE ANTHRACNOSE PATHOGEN COLLETOTRICHUM COCCODES.
M Robbins F F Angell
Hortscience 3(2,SUMMER):110
1968 SB1.H6
Anthracnose (tomatoes), Breeding, Colletotrichum eoeeodes, Mieroorganisms, Plant disease resistance, Research, Temperature, Tomatine.

14438-69
PHYTOPHTHORA DISEASES OF RUBBER IN CEYLON AND INDIA.
Rubber Res Inst Malaya Plant Bull (95):49-51
Mar 1968 78.9 R825
Chemieal control (plant diseases), Fungus diseascs (plants), Hevea, Phytophthora.

Leaf fall, pod rot and black stripe of rubber plants in Ceylon and India and the ehemieal controls of their etiologie agents are discussed.

14439-69
EARLY SOWINGS AND FUNGICIDES HELP ARREST THE ANGULAR LEAFSPOT OF COTTON.
V M Sahni S D Gera
Indian Farming 16(10):27
Jan 1967 22 IN283
Angular leafspot, Copper oxychloride, Cotton, Fungicides, Plant disease resistanee, Seed planting.

The use of fungieides, early crop sowing and disease resistant varieties of eotton are discussed as eontrols of angular leaf spot diseases of cotton in India.

14440-69
SUGARCANE DISEASES IN THE PUNJAB--A SURVEY REPORT.
S S Sandhu N S Mann D S Bhatti
Punjab Agr Univ J Res 4(4):533-535
Dec 1967 S19.P8
Baeteria, Plant diseases, Reports, Researeh, Sugareane, Surveys, Tables (data).

14441-69
EVIDENCE OF PHENOTYPIC MIXING BETWEEN TWO STRAINS OF TOBACCO MOSAIC VIRUS.
S Sarkar
Z Vererbungslehre 105(1):87-90
1969 442.8 Z34
Coconuts, Diagnosis, Leaves, Plant diseases, Plant nutrition, Proteins, Ribonucleic acid, Soil moisture, Temperature, Tobaeeo, Tobacco mosaie virus, Virus diseases (plants).

14442-69
A MILD STRAIN OF TRISTEZA VIRUS IN HASSAKU TREES (CITRUS HASSAKU HORT. ET Y. TANAKA) IN HIROSHIMA PREFECTURE. (JA)
A Sasaki
Phytopathol Soc Jap Ann 33(3):162-167 REF
Jun 1967 464.9 P562
Citrus, Greenhouse eulture, Limes, Plant disease transmission, Plant grafting, Seedlings, Tree diseases, Tristeza, Virus diseases (plants). Abstraet in English

14443-69
ISOLATION OF RISHITIN FROM TUBERS OF INTERSPECIFIC POTATO VARIETIES CONTAINING DIFFERENT LATE-BLIGHT RESISTANCE GENES.
N Sato K Tomiyama N Katsui T Masamune
Phytopathol Soc Jap Ann 34(2):140-142
Mar 1968 464.9 P562
Crop varieties, Fungus diseases (plants), Immunity, Late blight, Nodules (plants), Phytoalexin, Phytophthora infestans, Plant biochemistry, Plant disease resistanee, Plant genetics, Potatoes, Rishitin, Solanum demissum. Abstract in Japancse

14444-69
EFFECTS OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR) ON MATURITY AND SIZE OF POCAHONTAS STRAWBERRIES. (ABSTRACT).
R L Sehaefer
Hortscience 3(2,SUMMER):97
1968 SB1.H6
Greenhouse culture, Harvesting, Plant growth regulator, Research, Sampling (statistics), Strawberries, Sueeinie acid, 2,2-dimethylhydrazide.

14445-69
NEW TIN COMPLEX COMPOUNDS AS PLANT PROTECTION FUNGICIDES. (GE
P Schicke K R Appel L Schroder Rhien Ingelheim
Pflanzenschutzberichte 38(12):189-202
Oct 1968 464.9 P48
Biochemistry, Celery, Cercospora beticola, Chemical eontrol (plant diseases), Metals, Phytophthora infestans, Plant protection, Research, Septoria apii, Sugar beets, Tomatoes. English summary

14446-69
GREENHOUSE TESTING OF SUGAR BEETS FOR RESISTANCE TO CURLY TOP.
C L Schneider A M Jafri A M Murphy
Amer Soc Sugar Beet Technol J 14(8):727-734 REF
Jan 1968 66.9 AM35J
Circulifer tenellus, Crop varietics, Curly top, Greenhouse culture, Inseet veetors, Methodology, Plant breeding, Plant disease resistance, Sugar beets, Virus diseases (plants).

14447-69
ENHANCEMENT OF TOBACCO RATTLE VIRUS STABLE FORM INFECTION BY HETEROLOGOUS SHORT PARTICLES.
J S Semaneik M B Kajiyama
Virology 34(1):170-172
Jan 1968 448.8 V81
Partiele size determination, Rattle disease (tobacco), Tobaceo, Virus diseases (plants).

14448-69
STUDIES ON THE PARASITSM AND CONTROL OF TEA ROOT DISEASE FUNGI IN CEYLON. HETEROPTERA.
N Shanmuganathan A Rei Do Rego Barros
Ceylon Tea Res Inst Tea Quart 40(1):19-25
Mar 1969 68.18 C33
Chemical control (plant diseases), Ctenueha, Fungus diseases (plants), Inseet eolor, Insect physiology, Inseet taxonomy, Methyl bromide, Nematocides, Parasitism, Reproductive organs, Roots, Soil fumigation, Tea.

14449-69
POWDERY MILDEW OF RUBBER IN PAPUA.
D E Shaw
Papua New Guinea Agr J 19(3):140-146 MAP
Dee 1967 23 N453
Fungus diseases (plants), Hevea, Oidium, Powdery mildew, Surveys, Zoogeography.

14450-69
AN APPROACH TO THE ELUCIDATION OF HOST-PARASITE INTERACTION. (JA
J Shishiyama T Hirai
Phytopathol Soc Jap Ann 34(2):158-160
Mar 1968 464.9 P562

Deoxyribonucleic acid, Host indexing (plants), Indoleacetic acid, Plant biochemistry, Plant metabolism, Virology, Virus diseases (plants).

14451-69
ERRATUM 49: A PLEOMORPHIC PARASITE ON CEREAL SEEDS, PYRENOPHORA SEMENIPERDA.
R A Shoemaker
Can J Bot 45(4):542
Apr 1967 470 C16C
Grain, Parasitism, Pyrenophora semeniperda, Seeds. On page 1452, the illustration, fig. 1 was inverted. Consequently the caption refers to the wrong spores.

14452-69
SEED DRESSING FORMULATIONS.
C C Shroff
Pesticides 1(5):27
Jan 1968 SB951.P43
Formulations, Fungicides, Fungus diseases (plants), Seed treatment.

14453-69
PATHOGENICITY OF SOME SPECIES OF GODRONIA OCCURRING IN QUEBEC.
E Smerlis
Plant Dis Rep 53(10):807-810
Oct 1969 1.9 P69P
Alnus, Betula, Fungus diseases (plants), Surveys.

14454-69
TWO IMPORTANT BACTERIAL DISEASES ON BEANS. (TU)
S Sonmezalp
Bitki Koruma Bulteni 6(3):103-110
1966 464.8 B542
Bacterial diseases (plants), Beans, Cornybacterium, Methodology, Plant quarantine, Xanthomonas phaseoli. English summary

14455-69
EFFECT OF A VARIETAL MIXTURE ON SUGARCANE ROOT ROT SUSCEPTIBILITY AND ON THE RHIZOSPHERE MICROFLORA.
K V Srinivasan
Indian Acad Sci Proc Sect B 68(3):150-162 REF
Sep 1968 513 IN25B
Actinomycetes, Bacteria, Penicillium, Plant ecology, Pythium graminicola, Root rot, Sugarcane, Trichoderma.

14456-69
OCCURRENCE OF PHYLLOSTICTA LEAF SPOT ON FLORIDA CIGAR-WRAPPER TOBACCO.
J R Stavely R R Kincaid
Plant Dis Rep 53(10):837-839
Oct 1969 1.9 P69P
Fungus diseases (plants), Leaf spot, Phyllosticta, Plant morphology, Tobacco.

14457-69
THE EFFECT OF BENOMYL ON MYCOSPHAERELLA MUSICOLA.
R H Stover
Plant Dis Rep 53(10):830-833
Oct 1969 1.9 P69P
Bananas, Benomyl, Chemical control (plant diseases), Fungicides, Mycosphaerella musicola, Plant physiology, Spore germination, Sporulation.

14458-69
UTILIZATION OF VARIOUS FORMS OF NITROGEN BY DRECHSLERA SOROKINIANA, THE PATHOGEN CAUSING FOOT ROT DISEASE IN WHEAT.
C V Subramanian P D Tyagi
Indian Acad Sci Proc Sect B 68(3):111-130 REF
Sep 1968 513 IN25B
Foot rot, Fungus diseases (plants), Metabolism, Mycology, Nitrogen, Pyrenophora, Wheat.

14459-69
EFFECT OF BETA-ACYLPHENYLHYDRAZINE DERIVATIVES ON BLAST FUNGUS UPON LEAVES AND IN TISSUES OF RICE PLANTS. (JA)
I Sumina K Matsuura
Phytopathol Soc Jap Ann 33(3):138-143
Jun 1968 464.9 P562
Blast, Chemical control (plant diseases), Culture media, Fungus diseases (plants), Hydrazine compounds, Leaves, Plant growth inhibitors, Pyricularia oryzae, Rice, Seed germination, Tissues. Abstract in English

14460-69
ANATOMICAL STUDIES OF RICE PLANT INFECTED WITH BACTERIAL LEAF BLIGHT, WITH SPECIAL REFERENCE TO WILT SYMPTOM. (JA)
H Tabei
Phytopathol Soc Jap Ann 34(2):137-139 REF
Mar 1968 464.9 P562
Bacterial diseases (plants), Bacterial leaf blight, Plant anatomy, Plant histology, Rice, Seedlings, Time, Wilt disease (plants). Abstract in English

14461-69
STUDIES ON DWARF DISEASE OF MULBERRY TREE. XVI. ON TWO STRAINS. (JA)
Y Tahama
Phytopathol Soc Jap Ann 33(3):156-161
Jun 1967 464.9 P562
Dwarf disease, Leaves, Morus, Plant physiology, Tree diseases, Tree injuries, Virus diseases (plants). Abstract in English.

14462-69
A COLOR TEST FOR CITRUS EXOCORTIS IN JAPAN.
S Tanaka
Phytopathol Soc Jap Ann 34(2):151-152
Jul 1968 464.9 P562
Assay, Citrus, Color, Grapefruit, Immunity, Lemons, Mandarin oranges, Sweet oranges, Trifoliate oranges, Virus diseases (plants). Summary in Japanese

14463-69
THE DEVELOPMENT OF ECHINULATION IN UREDOSPORES OF WHEAT STEM RUST.
P L Thomas P K Isaac
Can J Bot 45(3):287-289
Mar 1967 470 C16C
Electron microscopes, Electron microscopy, Fungus diseases (plants), Wheat.

14464-69
MORPHOLOGY OF CAULIFLOWER MOSAIC VIRUS. (JA)
H Tochihara
Phytopathol Soc Jap Ann 33(3):195-197
Jun 1967 464.9 P562
Cauliflower, Centrifugation, Culture media, Electron microscopy, Mosaic, Plant morphology, Virus diseases (plants). Abstract in English

Abstract: The writer corrects his mistake in identification of the virus particles reported in his previous paper (Ann. Phytopath. Soc. Japan 25: 187, 1960).

14465-69
RADISH ENATION MOSAIC VIRUS. (JA)
H Tochihara
Phytopathol Soc Jap Ann 34(2):129-136 REF
Mar 1968 464.9 P562
Enation mosaic, Eurydema rugosa, Hyadaphis pseudobrassicae, Immunity, Injections, Insect vectors, Leaves, Mosaic, Myzus persicae, Phyllotreta striolata, Plant disease transmission, Plant taxonomy, Radishes, Temperature, Virus diseases (plants). Abstract in English.

Abstract: The following plants were not susceptible: tobacco (bright yellow, yanthi, white burley), Nicotiana glutinosa, tomato, pepper, kidney bean, cowpea, broad bean, garden pea, cucumber, pumpkin, Chrysanthemum coronarium, morning-glory, beet, rape, Datura stramonium, and Physalis floridana.

14466-69
CHEMICAL TREATMENT THE ANSWER TO FRUIT SCALD.
B L Tugwell
S Australia J Agr 71(8):296-298
Mar 1968 23 SO84
Apples, Carbamates, Chemical control (plant diseases), Dipping, Ethoxyquin, Fruit, Pears, Propanil, Scald, Spraying, Storage diseases, Urea compounds.

14467-69
POST-YEAR RESPONSES OF CONCORD GRAPE VINES TREATED WITH N-DIMETHYLAMINO SUCCINAMIC ACID. (ABSTRACT).
L D Tukey
Hortscience 3(2,SUMMER):126
1968 SB1.H6
Crop yields, Pruning, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14468-69
SOME FACTORS AFFECTING INCIDENCE OF LEAF SPOT OF TURMERIC BY TAPHRINA MACULANS BUTLER.
R Upadhyay M S Pavgi
Phytopathol Soc Jap Ann 33(3):176-1180
Jun 1967 464.9 P562
Curcuma longa, Fungus diseases (plants), Humidity, Leaf spot, Plant ecology, Soil-borne plant diseases, Taphrina maculans, Temperature. Abstract in Japanese

14469-69
VIRUS DISEASES OF CEREALS IN SOUTH AFRICA. II. IDENTIFICATION OF TWO ELONGATED PLANT VIRUSES AS STRAINS OF SUGAR CANE MOSAIC VIRUS.
M B Von Wechmar J S Hahn
S Afr J Agr Sci 10(1):241-252 REF
Mar 1967 24 SU3
Grain, Mosaic, Sugarcane, Virus diseases (plants).

14470-69
FUNGAL PATHOGENICITY TO SOUND AND MECHANICALLY DAMAGED BLUE LUPINE SEED IN ANEXIC CULTURE AT TWO TEMPERATURES.
H D Wells D K Bell
Plant Dis Rep 53(10):774-776
Oct 1969 1.9 P69P
Fungus diseases (plants), Lupinus angustifolius, Plant injuries, Surveys.

14471-69
VIRUS A AS A CAUSE OF STREAK ON SECONDARY INFECTED EYESTECKLINGS OF THE POTATO. (GE)
H Wenzl
Pflanzenschutzberichte 37(12):197-202
Jun 1968 464.9 P48
Diagnosis, Leaves, Potatoes, Research, Streak, Virus a (potatoes), Virus diseases (plants), Virus s. English summary

14472-69
OVERWINTERING OF TUBERCULINA MAXIMA ON WHITE PINE BLISTER RUST CANKERS.
E F Wicker J M Wells
Phytopathology 58(3):391
Mar 1968 464.8 P56
Blister rust, Cold, Cronartium ribicola, Culture media, Fungus diseases (plants), Hibernation, Pinus, Tuberculina.

14473-69
SEVERAL YEARS' RESEARCH ON THE INVESTIGATIONS OF VIRUS IN PEARS. (GE)
E A Wigger
Gesunde Pflanzen 19(8):160
Aug 1967 464.8 G33
Pears, Ring spot, Virus diseases (plants).

14474-69
COMATRICHA NODULIFERA, A NEW MYXOMYCETE FROM TEXAS.

C Wollman C J Alexopoulos
Can J Bot 46(2):157-159
Feb 1968 470 C16C
Agar, Bark, Culture media, Myxomycetes, Plant diseases.

14475-69
NUTRITIONAL EFFECTS CONNECTED WITH SHEEPNOSING, A DISORDER OF GRAPEFRUIT. (ABSTRACT).
H K Wutscher
Hortscience 3(2,SUMMER):107
1968 SB1.H6
Deficiency diseases, Hydrogen-ion concentration, Leaves, Potassium, Research, Soil structure.

14476-69
AN ALTERNATIVE WEED HOST FOR XANTHOMONAS CAMPESTRIS.
J M Young
Plant Dis Rep 53(10):820-821
Oct 1969 1.9 P69P
Bacterial diseases (plants), Brassica, Weeds, Xanthomonas.

14477-69
THE EFFECT OF CYCLOHEXIMIDE ON THE RESISTANCE OF POTATO TUBER DISCS TO INVASION BY A FLUORESCENT PSEUDOMONAS SP.
M Zucker M M El-Zayat
Phytopathology 58(3):339-344 REF
Mar 1968 464.8 P56
Cycloheximide, Enzymes, Fluorescence, Plant biochemistry, Plant disease resistance, Potatoes, Proteins, Pseudomonas.

ARTHROPODS

14478-69
PLANT CARE AND BEE CARE GO HAND IN HAND. (GE)
Anonymous
Gesunde Pflanzen 19(7):150-151
Jul 1967 464.8 G33
Bees, Plant odor, Plant protective devices, Pollination, Social insects.

14479-69
PESTS OF LEGUME COVERS. CHARACTERISTIC COCOON PRODUCTION.
Anonymous J R Pedro A Borgonovi H Vaz De Arruda
Rubber Res Inst Malaya Plant Bull (102):105-112
May 1969 78.9 R825
Chemical control (insects), Clover, Insect pests, Insect physiology, Insect rearing, Legumes, Plant nematodes, Pupal cases, Bombyx mori, Statistical analysis, Surveys.

14480-69
PROBLEMS REGARDING THE PROTECTION OF FRUIT TREES AGAINST INFESTATIONS BY LEAF MINING MICROLEPIDOPTERA. (IT)
G Briolini G Celli P Giunchi
Giornate Fitopatol 365-372 MAP
26 Mar 1967 SB599.G5
Apples, Biological control (insects), Chemical control (insects), Dichlorvos, Insect outbreaks, Leaf miners, Microlepidoptera, Organophosphorus compounds. Many species of microlepidoptera are discussed.

14481-69
FACTORS AFFECTING THE INFESTATION OF APHIDS ON POTATO PLANTS. (JA)
M Enaizumi
Jap J Appl Entomol Zool 12(1):10-17 REF
Mar 1968 475 J27
Aphididae, Aphis gossypii, Aulacorthum solani, Insect dissemination, Insect pests, Insect temperature, Macrosiphum euphorbiae, Myzus persicae, Potatoes, Rainfall.

14482-69
THE FREQUENCY OF SOGATA ORIZICOLA MUIR AND SOGATA CUBANA CRAWF. ON RICE AND ECHINOCHLOA COLONUM IN COLOMBIA. (SP)
G E Galvez
Agr Trop 23(6):384-389
Jun 1967 26 AG8
Chemical control (insects), Cultural control (insects), Echinochloa, Plant pest resistance, Planting date, Rice, Sogata cubana, Sogata orizicola. English abstract

14483-69
INSECTS OF THE SEASON 1966 RELATED TO FRUIT, VEGETABLES AND ORNAMENTALS.
H W Goble
Entomol Soc Ontario Proc 97:6-7
1966 420 ON8
Fruit, Insect control, Insects, Ornamental plants, Plant injuries, Research, Vegetables.

14484-69
NOTE ON THE TRANSMISSION OF NORTHERN CEREAL MOSAIC VIRUS BY MUELLERIANELLA FAIRMAIREI (PERRIS). (JA)
T Ishii
Jap J Appl Entomol Zool 11(4):191-192
Dec 1967 475 J27
Insect vectors, Mosaic, Muellerianella fairmairei, Research, Virus diseases (plants).

14485-69
PESTS OF THE GRAPEVINE.
E L Jones
Agr Gaz New S Wales 78(PT 12):708-714
Dec 1967 23 N472
Acarina, Brevipalpus, Eriophyes vitis, Grapes, Phalaenoides glycinae, Plant pest control, Pseudococcus maritimus, Rhynchophora, Thysanoptera, Tortrix postvittana.

Control of economically important grapevine pests in Australia are discussed.

14486-69
LEST WHITE GRUBS VISIT YOUR SUGARCANE...AND FIND YOU UNPREPARED.
A N Kalra
Indian Farming 16(12):36-37
Mar 1967 22 IN283
Chemical control (insects), Crop rotation, Insect ecology, Light traps, Plowing, Scarabaeidae, Sugarcane.

The control of a sugarcane pest, Holotrichia (Lachnosterna) serrata by light traps, cultural and chemical controls is discussed.

14487-69
INFLUENCE OF PESTICIDES ON RUSSETING OF GOLDEN DELICIOUS APPLES.
F W Kremer
Pflanzenschutz Nachr Bayer 20(4):629-643
1967 464.8 H67AE
Acaricides, Apples, Chemical control (insects), Crop varieties, Fungicides, Insect ecology, Insect pests, Insecticides, Mites, Orchidaceae, Panonychus ulmi, Russeting, Spraying.

14488-69
HARD-TO-KILL PESTS OF FRUIT TREES;THE MITES.
H F Lower
S Australia J Agr 71(8):273-278
Mar 1968 23 SO84
Bryobia, Chemical control (insects), Equipment, Fruit, Insect control, Insect eggs, Insect pests, Insecticide resistant insects, Insecticides, Mites, Oils, Spraying, Temperature, Tree injuries.

14489-69
ON THE APPEARANCE AND THE CONTROL OF THE RED-CURRANT LEAF-GALL FLY. (GE)
H G Michel
Gesunde Pflanzen 20(3):50-52
Mar 1968 464.8 G33
Biochemistry, Cecidomyiidae, Chemical control (insects), Chlorinated hydrocarbons, Currants, Dasineura tetensi, Demeton, Endosulfan, Insect pests, Insecticides, Organophosphorus compounds, Plant injuries.

14490-69
BIONOMICS OF THE RICE GUNDHY BUG, LEPTOCORISA VARICORNIS FABR. (HEMIPTERA, HETEROPTERA; COREIDAE).
S S Misra
Allahabad Farmer 42(2):75-77
Mar 1968 22 AL5
Biometry, Crop losses, Leptocorisa varicornis, Life cycle, Rice.

14491-69
THE DEVELOPMENT OF THE CITRUS PSYLLA, TRIOZA ERYTREAE (DEL GUERCIO) (HOMOPTERA: PSYLLIDAE), ON CITRUS LIMON AND FOUR INDIGENOUS HOST PLANTS.
V C Moran
Entomol Soc Southern Afr J 31(2):391-402 REF
Sep 1968 420 EN86
Host plants, Insect morphology, Insect rearing, Psyllidae, Rutaceae.

14492-69
VARIOUS PROBLEMS ON VECTORS OF RICE VIRUSES.
S Nasu
Kontyu 35(3):290-301 REF
Sep 1967 421 K833
Insect vectors, Rice, Virus diseases (plants).

14493-69
STUDIES ON THE INSECTICIDE RESISTANCE OF THE TEA RED SPIDER MITE, TETRANYCHUS KANZAWAI KISHIDA. II. THE MITE RESISTANCE TO PHENKAPTON, ESTOX, AND KELTHANE IN THE TEA GROWING AREAS IN JAPAN. (JA)
M Osakabe
Jap J Appl Entomol Zool 12(1):18-22
Mar 1968 475 J27
Chemical control (insects), Chlorinated hydrocarbons, Dichlorophenyl)thio)methyl) O,O-diethyl phosphorodithioate ,, Dicofol, Dimethyl S-(1-methyl-2-ethylsulfinyl)ethyl phosphorodithioa t, Insecticide resistant insects, Insecticides, Mites, Organophosphorus compounds, Tea, Tetranychus kanzawai.

14494-69
TANYMECUS DILATICOLLIS GYLL. (CURCULIONIDAE, COLEOPTERA) AS A PEST OF CULTIVATED PLANTS AND THE PRE-SOWING TREATMENT OF THE SEED WITH INSECTICIDES AS A CONTROL MEASURE. (GE)
P A Popov
Pflanzenschutzberichte 38(8/9):101-114 MAP REF
Jul 1968 464.9 P48
Biochemistry, Chemical control (insects), Corn, Curculionidae, Dieldrin, Insect biology, Insect pests, Insecticides, Plant injuries, Seed planting. English summary

14495-69
TRANSMISSION EXPERIMENTS WITH THE LATENT PRUNUS-VIRUS AND THE GALL MITE VASATES FOCKEUI NAL. (GE)
G Proescler
Phytopathol Z 63(1):1-9 REF
Sep 1968 464.8 P562
Feeding, Insect vectors, Mites, Plant disease transmission, Prunus, Research, Time, Virus diseases (plants). English summary.

14496-69
OCCURRENCE AND CONTROL OF HAPLODIPLOSIS EQUESTRIS IN HOLLAND.
E G R Rijsten
Pflanzenschutz Nachr Bayer 20(4):674-680
1967 464.8 H67AE
Cecidomyiidae, Chemical control (insects), Chlorinated hydrocarbons, Crop rotation, DDT,

Gall-making insects, Haplodiplosis equestris, Insect ecology, Insect pests, Insecticides, Marshes, Sandy soils, Soil sampling, Spraying, Weeds, Zoogeography.

14497-69
INSECTICIDAL EXPERIMENTS FOR THE CONTROL OF MUSTARD APHID.
G Rout B Senapati
Pflanzenschutz Nachr Bayer 20(4):681-686
1967 464.8 H67AE
Chemical control (insects), Crops, Cruciferae, Insect pests, Insecticide application, Lipaphis erysimi, Myzus persicae, Organophosphorus compounds, Parathion, Seed treatment, Soil analysis, Spraying.

14498-69
RECOMMENDATIONS FOR CHEMICAL CONTROL OF PESTS OF RUBBER PLANTATIONS.
Rubber Res Inst Malaya Plant Bull (95):67-68
Mar 1968 78.9 R825
Chemical control (insects), Hevea, Insect pests, Insecticide application, Methodology. These recommendations supersede those published in Planters' Bulletin 82 (p.17).

14499-69
FURTHER EXPERIMENTS REGARDING THE CLARIFICATION OF THE CONNECTION BETWEEN THE BEET LACEBUG PIESMA QUADRATUM (FIEB) AND THE BEET CRINKLE VIRUS. (GE)
H Schmutterer
Z Pflanzenkrankh (pflanzenpathol) Pflanzenscluntz 75(7):387-394 REF
Jul 1968 464.8 Z3
Crinkle (sugar beets), Gastrointestinal system, Insect vectors, Piesma, Plant disease transmission, Plant diseases, Research, Virus diseases (plants). English summary

14500-69
OBSERVATIONS ON THE TOLERANCE AND SUSCEPTIBILITY OF TEA CLONES TO SHOT-HOLE BORER INVESTIGATION--1969.
K Thirugnanasuntharan D Calnaido
Ceylon Tea Res Inst Tea Quart 40(1):47-52
Mar 1969 68.18 C33
Brucellosis, Cattle, Livestock diseases, Plant breeding, Plant disease resistance, Scolytus rugulosus, Surveys, Tea.

14501-69
NEOTETRANYCHUS RUBICOLA BAGD. ON THE RASPBERRY BUSH IN SERBIA. (SE)
B Tomasevic
Zastita Bilja 18(93/95):207-211
1967 464.8 Z1
Acaricides, Chemical control (insects), Dichlorophenyl)thio)methyl) O,O-dicthyl phosphorodithioate ,, Dicofol, Insect bchavior, Insect pcsts, Neotetranychus rubicola, Phosphamidon, Raspberries. French summary.

14502-69
A CONTRIBUTION TO THE STUDY OF OLIVE CECIDOMYIIDAE: LASIOPTERA BERLESIANA (PAOLI). (CZ)
A Tominic
Zastita Bilja 12(91-92):221-228 REF
1966 464.8 Z1
Cecidomyiidae, Gall-making insects, Insect biology, Insect pests, Larvae, Lasioptera berlesiana, Olives, Pistacia lentiscus, Pistacia terebinthus. English summary

14503-69
KNOW YOUR ENEMY: THE SO-CALLED 'CORNFLY'. (GE)
H J Wasserburger
Mitt Dent Landwirt -ges 83(24):906-907
13 Jun 1968 18 N39
Chemical control (insects), Corn, Hylemya platura, Insect pests, Plant injuries. Seeds.

NEMATODES

14504-69
THE SUGAR BEET NEMATODE.
J Altman
Down Earth 23(4):27-31 SPRING
1968 381 D75
Biochemistry, Chemical control (nematodes), Crop losses, Crop yields, Dichloropropene, 1,3-, Heterodera, Morphology, Plant injuries, Plant nematodes, Soil fumigation, Sugar beets.

14505-69
A STUDY ON THE CORRELATION OF CITRUS NEMATODE POPULATION WITH DECLINE OF CITRUS.
O S Bindra H K Chhabra K L Chadha N K Mehrotra
Punjab Agr Univ J Res 4(4):543-546
Dec 1967 S19.P8
Correlation, Crop yields, Oranges, Population, Research, Tables (data), Tylenchulus semipenetrans.

14506-69
IMPORTANCE AND CAUSES OF NEMATODE MOVEMENT IN THE SOIL AND RESEARCH ON THE MIGRATION OF 'DITYLENCHUS MYCELIOPHAGUS'. (FR
J C Cayrol M Ritter
Rev Zool Agr Appl 66(7-9, 3RD TRIMESTER):92-102 REF
1967 410.9 SO12
Behaviorism, Ditylenchus, Locomotion, Mathematical analysis, Plant nematodes, Soils.

14507-69
PATHOGENICITY AND IDENTITY OF ROOT-KNOT NEMATODES ON FIVE VARIETIES OF BANANA.
M Z Claudio R G Davide
Philippine Agr 51(3):241-251
Aug 1967 25 P542
Bananas, Immunization, Meloidogyne incognita, Plant nematodes, Root knot nematode.

14508-69
A NEW NEMATODE-DESTROYING HARPOSPORIUM.
C Drechsler
Amer J Bot 55(10,NOV-DEC):1251-1253
Dec 1968 450 AM36
Biological control (pests), Fungi, Harposporium, Nematode controlling fungi, Nematodes, Plant pests, Taxonomy.

14509-69
THE OCCURRENCE OF HETERODERA GLYCINES ON TRIFOLIUM ALEXANDRINUM IN UNITED ARABIC REPUBLIC.
I A Elmiligy
Nematologica 14(4):592
1968 436.8 N342
Clover, Heterodera glycines, Plant nematodes.

14510-69
RING NEMATODE DISEASE OF RICE IN LOUISIANA. (ABSTRACT).
J P Hollis M S Embabi S A Alhassan
Phytopathology 58(6):728-729
Jun 1968 464.8 P56
Agar, Criconemoides, Meloidogyne incognita, Plant nematodes, Soil-borne plant diseases.

14511-69
INFLUENCE OF ZYGOTYLENCHUS GUEVARAI (TOBAR JIMENEZ, 1963) BRAUN AND LOOF, 1966, ON SOME OF ITS HOSTS. (SP)
A T Jimenez D G Benitez C M Sierra
Rev Iberica Parasitol 28(2,APR-JUN):177-187
Jun 1968 436.8 R32
Alfalfa, Plant nematode resistance, Plant nematodes, Viola, White clover, Zygotylenchus. English abstract

14512-69
CONTROL OF CITRUS NEMATODE, TYLENCHUS SEMIPENETRANS, WITH DBCP IN ESTABLISHED CYPRUS CITRUS GROVES.
J Philis
Plant Dis Rep 53(10):804-806
Oct 1969 1.9 P69P
Chemical control (nematodes), Citrus, Cyprus, Dibromo-3-chloropropane, 1,2-, Plant nematodes, Tylenchulus semipenetrans.

14513-69
EFFECT OF HETERODERA SCHACHTII ON SUGAR BEET SEEDLINGS UNDER MONOXENIC CONDITIONS.
A G Polychronopoulos B F Lownsbery
Nematologica 14(4):526-534 REF
1968 436.8 N342
Germ-free life, Heterodera schachtii, Plant nematodes, Plant physiology, Seedlings, Sugar beets.

14514-69
PRESENT KNOWLEDGE ON PHYTOPHAGOUS NEMATODES AND THEIR RELATIONS WITH VIRUS DISEASES. (FR)
Ann Epiphyt 18(2):249-272 REF
1967 464.9 F84AN
Longidorus, Nematodes, Plant protection, Trichodorus, Virus diseases (plants), Xiphinema. English summary

14515-69
UNDERPOPULATION IN PLANT PARASITIC NEMATODES.
J W Seinhorst
Nematologica 14(4):549-553
1968 436.8 N342
Fusarium oxysporum, Peas, Plant nematodes, Population, Rotylenchus.

14516-69
ECONOMICALLY IMPORTANT NEMATODES IN ONTARIO--1966.
J L Townshend
Entomol Soc Ontario Proc 97:5-6
1966 420 ON8
Agricultural economics, Greenhouse culture, Nematodes, Research, Soil analysis, Tobacco.

WEEDS

14517-69
SECONDARY EFFECTS OF FUNGICIDES ON BARLEY. (SP)
L E Chaves E Y Orjuela N
Agr Trop 23(5):319-330 REF
May 1967 26 AG8
Barley, Crop yields, Dithane, Fungicides, Maneb, Plant physiology, Triphenyltin acetate. English abstract

14518-69
ONION WEED CONTROL ON MALLEE SOILS.
T R Davidson
S Australia J Agr 71(8):290-293
Mar 1968 23 SO84
Alfalfa, Chemical control (weeds), Cultural control (weeds), Eucalyptus, Herbicides, Onions, Perennial plants, Planting, Soils, Spraying, Superphosphates, Tillage, Weed control, Wind erosion.

14519-69
EFFECT OF SELECTIVE HERBICIDES TO LIQUORICE PLANT GROWING IN CEREAL FIELDS. (TU)
N Dinc M Zel
Bitki Koruma Bulteni 6(3):94-102
1966 464.8 B542
Biochemistry, Chemical control (weeds), Crop yields, Field crops, Grain, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-. English summary

14520-69
MONOLINURON IN INCREASE OF GRAIN. (GE)
K Fritzsch
Gesunde Pflanzen 19(8):154-156
Aug 1967 464.8 G33

Chemical control (weeds), Crop yields, Grain, Herbicides, Monolinuron, Simazine, Weed control, Weeds.

14521-69
COLTSFOOT CONTROL WITH 2,4-DP ON THE STUBBLE. (GE)
K Fritzsch
Gesunde Pflanzen 19(5):97-100
May 1967 464.8 G33
Amitrole, Chemical control (weeds), Dichlorprop, Herbicides, Mecoprop, Stubble crops, Tussilago farfara.

14522-69
WATER HYACINTH AND ITS CONTROL.
M N Hari
Pesticides 1(9):28-29
May 1968 SB951.P43
Chemical control (weeds), Costs, D, 2,4-, Eichhornia crassipes.

14523-69
DEVELOPMENT OF CORN-GROWING ALONG THE RHEIN THROUGH USE OF GROWTH PRODUCING HERBICIDES. (GER)
R J Haupt
Gesunde Pflanzen 19(7):140-142
Jul 1967 464.8 G33
Chemical control (weeds), Corn, D, 2,4-, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Plant regulators, Weather, Weeds.

14524-69
POSSIBILITIES OF WEED CONTROL IN CORN WITH ATRAZINE, TAKING SPECIAL NOTE OF THE CONTROL OF COUCH-GRASS, WILD OATS AND OLDER WEEDS. (GE)
K Hiebel
Gesunde Pflanzen 20(4):89-91
Apr 1968 464.8 G33
Atrazine, Biochemistry, Chemical control (weeds), Corn, Dosage, Herbicides, Oats, Spraying, Weeds.

14525-69
CONTROL OF WEED GRASS. (GE)
A V Horn
Gesunde Pflanzen 19(5):100-106
May 1967 464.8 G33
Avena fatua, Calcium nitrate, Chemical control (weeds), Corn, Crop losses, Crop yields, Grasses, Herbicides, Production economics, Simazine, Triallate.

14526-69
EXPERIENCES WITH PATORAN (METABROMURON) ON WEED CONTROL IN BEAN SHRUBS. (GE)
V O Hornig
Gesunde Pflanzen 20(3):46-50
Mar 1968 464.8 G33
Arctium, Beans, Centaurea cyanus, Chemical control (weeds), Herbicides, Metobromuron, Plant biochemistry, Shrubs, Toxins.

14527-69
CORN DAISIES AND THEIR CONTROL.
V W Ihlemann
Gesunde Pflanzen 19(5):107-109
May 1967 464.8 G33
Bis(((3,5-dimethylmorpholino)carbonyl)methyl)-4,4'-bipyridin i, Chemical control (weeds), Chrysanthemum segetum, Marshes, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds.

14528-69
IMPROVED METHOD FOR WEED CONTROL IN POTATOES ON EXTREMELY MARSHY SOIL. (TEST EXPERIENCES IN UPPER BAVARIA 1965-67). (GE
H Kees E J Wendland
Gesunde Pflanzen 20(5):93,96
May 1968 464.8 G33
Biochemistry, Chemical control (weeds), Herbicides, Marshes, Methodology, Plant physiology, Potatoes, Spraying.

14529-69
SIMULTANEOUS CONTROL OF APERA SPICA VENTI AND BROAD LEAF WEEDS THROUGH SOIL HERBICIDES. (TEST RESULTS IN UPPER BAVARIA 1965-1967). (GE)
H Kees E J Wendland
Gesunde Pflanzen 20(4):80-84
Apr 1968 464.8 G33
Apera spica-venti, Biochemistry, Chemical control (weeds), Crop yields, Herbicides, Statistical analysis, Tables (data), Wheat.

14530-69
CHEMICALS THAT SHOW--CROPS' CO-EXISTENCE WITH WEEDS IS NOT NECESSARY.
V S Mani
Indian Farming 16(10):30-31
Jan 1967 22 IN283
Chemical control (weeds), Crop yields, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Propazine, Simazine, Weed control.
Chemical control of weeds in various crops in India are listed.

14531-69
MITES.
F Maramoto
Hawaii Anthurium Conf Proc 1:15
Feb 1968 S544.3.H3H3
Anthurium, Brevipalpus obovatus, Brevipalpus phocnicis, Hemitarsonemus latus, Larvae, Leaves, Plant injuries, Research, Tetranychus telarius.

14532-69
WEED CONTROL IN VEGETABLES.
A D Mears
Agr Gaz New S Wales 78(PT 3):160-161
Mar 1967 23 N472
Chemical control (weeds), Crops, Cultural control (weeds), Herbicides, Soil properties.
Selection of herbicides according to soil type, weeds, test crop, seasonal conditions, and residues is discussed.

14533-69
SOME FACTORS AFFECTING THE DISAPPEARANCE OF TORDON IN SOIL.
R W Moffat
Down Earth 23(4):6-10 REF SPRING
1968 381 D75
Biochemistry, Biological assay, Chemical control (weeds), Degradation, Dosage, Foliar application, Herbicides, New Zealand, Picloram, Rainfall, Soil leaching, Soil series, Spraying.

14534-69
PRE-EMERGENCE APPLICATION OF 2,4-D-ESTER TO WHEAT (TRITICUM VULGARE).
P C Nel
S Afr J Agr Sci 10(1):283-284
Mar 1967 24 SU3
Chemical control (weeds), D, 2,4-, Herbicides, Insecticide application, Phenoxy acid, Preemergence, Wheat.

14535-69
GENERAL NON--SELECTIVE WEED CONTROL WITH MONOSODIUM ACID METHANE ARSONATE (MSMA) BASED MIXTURES IN RUBBER PLANTATIONS.
Rubber Res Inst Malaya Plant Bull (95):52-55
Mar 1968 78.9 R825
Arsenic compounds, Catalogs, Chemical control (weeds), Herbicides, Hevea.

14536-69
DEVELOPMENTAL TRENDS IN THE CHEMICAL CONTROL OF WEEDS IN BEETS. (GE)
H Schmidt J Meyer
Gesunde Pflanzen 20(3):58-60,62-64
Mar 1968 464.8 G33
Beets, Chemical control (weeds), Herbicides, Humus, Methyl m-hydroxycarbanilate, Pesticide application, Propynyl N-phenylcarbamate, Spraying, Triallate.

14537-69
STAM F-34 CAN KILL THE WEEDS OF GORA PADDIES.
M S Subba Rao P C Agrawal
Indian Farming 16(4):6,37
Jul 1966 22 IN283
Chemical control.(weeds), Crop yields, Herbicides, Rice, Stam, Weed control.

14538-69
SYSTEMATIC WEED CONTROL IN GRAPE CULTURE. RESULTS OF A FIRST FOUR YEAR PERIOD OF EXPERIMENTATION. (IT)
F Valenza
Giornate Fitopatol 551-556 REF
26 Mar 1967 SB599.G5
Chemical control (weeds), Diuron, Grape vineyards, Paraquat.

14539-69
THE CONTROL OF WILD FOXTAIL GRASS IN WINTER WHEAT AS WELL AS THE PREVENTION OF WEATHER TRODDEN GRAIN. (GE)
N Weiler
Gesunde Pflanzen 19(5):109-110
May 1967 464.8 G33
Alopecurus, Chemical control (weeds), Cycocel, Grain, Herbicides, Plant injuries, Plant protection, Storage, Triazine, Urea, Weather, Wheat.

OTHER PESTS

14540-69
THE ECONOMIC INCIDENCE OF FIELD VOLE CONTROL IN FRANCE.
L Bouyx
Int Conf Rodents Rodenticides (SER A)(41):93,95,97
Jan 1967 QL1.I52
Crop losses, Economics, Field mice, Pest control, Plant injuries, Plant protection. Original Fr.- pages 92,94,96.

14541-69
MUSK, BROWN RATS AND HARVEST MICE AS PESTS IN MAIZE. (GE)
H Engel
Gesunde Pflanzen 20(3):41-46
Mar 1968 464.8 G33
Atrazine, Chemical control (pests), Corn, Digitaria sanguinalis, Economics, Field crops, Grain, Harvest mice, Muskrats, Panicum, Rats, Rodenticides, Simazine, Spraying, Wildlife pests.

14542-69
RIDDING RICE FIELDS OF RATS.
C Ramakrishnan V Jayaraman B Velayutham
Indian Farming 16(7):25,27,52
Oct 1966 22 IN283
Animal traps, Chemical control (pests), Crop yields, Parathion, Rats, Rice.

14543-69
THE CAUSES AND DYNAMICS OF POPULATION EXPLOSIONS OF M. ARVALIS: A SURVEY OF CURRENT FRENCH RESEARCH.
F Spitz
Int Conf Rodents Rodenticides (SER A)(41):97,99,101,103,105
Jan 1967 QL1.I52
Population, Research, Surveys. Original Fr.- 96,98,100,102,104.

14544-69
COMMENTS ON RAT-FREE TOWNS.
H Wichmand
Int Conf Rodents Rodenticides (SER A)(41):89,91
Jan 1967 QL1.I52
Pest control, Public health, Rats, Research. Original Fr.- pages 88,90.

LIVESTOCK PROTECTION

14545-69
FIVE YEARS' RESEARCH WITH A HATCHERY SANITATION PROGRAM IN MAINE.
H L Chute M Gershmann E S Barden
Maine Agr Exp Sta Bull (661):25P
Jul 1968 100 M28S (1)
Bacteria, Chicks, Eggs, Equipment, Fungi, Microbiology, Microorganisms, Poultry hatcheries, Poultry industry, Research, Sanitation.

14546-69
TUBERCULOSIS IN THREE HERDS WITH ACCESS TO THE SAME OPEN SEWER.
R Ford
State Vet J 19(57):216-225
Sep 1964 SF601.S8
Cattle, Dairy farms, Research, Sewage, Tuberculosis, Water pollution.

14547-69
PIPERAZINE-CARBON DISULFIDE COMPLEX. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 33(240):18408-18409
11 Dec 1968 L1.451
Accident prevention, Biochemistry, Carbon disulfide, Dosage, Drug therapy, Piperazine, Research, Veterinary medicine.

14548-69
THE INSECT ECOLOGY OF OLD-FIELD RED PINE PLANTATIONS IN CENTRAL ONTARIO, I. DESCRIPTION OF THE STUDY AREA. III. SOIL-SURFACE FAUNA AS INDICATORS OF STAND CHANGE.
J L Martin
Entomol Soc Ontario Proc 95:70-102 REF
1966 420 ON8
Arthropoda, Histology, Insect ecology, Pinus, Plant physiology, Research, Sampling (statistics), Soil fauna.

14549-69
LEBANON.
C N Saunders
State Vet J 19(57):226-229
Sep 1964 SF601.S8
Geography, Poultry, Research, Veterinary laboratories.

14550-69
ARE SCARECROWS USEFUL AGAINST BIRD DAMAGE .
H Schonbeck
Pflanzenarzt 21(4):48
01 Apr 1968 464.9 P482
Birds, Crows, Harvesting, Phosphorus, Seed planting.

14551-69
SPEED THE KEY TO PRESERVING HIDES.
G W Vivian
Spur 1(2):35,37
Nov 1967 S544.5.A83S6
Agricultural industries, Bacteria, Bactericides, Boric acid, Brining, Calcium phosphates, Curing, Drying, Freeze drying, Hides, Naphthalene, Storage.

DISEASES

14552-69
A STUDY OF CONTAGIOUS CAPRINE PLEUROPNEUMONIA.
A E D Abdulla E P Lindley
Bull Epizoot Dis Afr 15(4):313-315
Dec 1967 41.8 B872
Bacteriology, Cattle, Contagious bovine pleuropneumonia, Etiology, Goats, Infectious diseases, Livestock diseases, Mycoplasma mycoides, Sheep.

14553-69
ISOLATION OF BUNYAMWERA-GROUP VIRUSES FROM WISCONSIN MOSQUITOES.
R O Anslow W H Thompson P H Thompson G R Defoliart O Papadopoulos Et Al
Amer J Trop Med Hyg 18(4,PT 1):599-608
Jul 1969 448.8 AM326
Aedes, Bunyamwera viruses, Hemagglutination-inhibition test, Mansonia, Mice, Neutralization test, Surveys.

14554-69
BOVINE VIRUS DIARRHEA IN ITALY. II. REPRODUCTION OF THE DISEASE.
G Avellini G Castrucci B Morettini V Cilli
Arch Gesamte Virusforsch 24(1-2):65-75 REF
Jun 1968 448.3 AR23
Antigens, Bovine virus diarrhea virus, Cattle, Poxviruses, Virus diseases (animals), Virus production.

14555-69
ISOLATION AND CHARACTERIZATION OF MYCOPLASMA ARGININI: SPEC. NOV.
M F Barile R A DelGiudice T R Carski C J Gibbs J A Morris
Soc Exp Biol Med Proc 129(2):489-494 REF
Nov 1968 442.9 SO1
Bacteria, Culture media, Mycoplasma, Mycoplasma arginini, Physiology, Taxonomy.

14556-69
IDENTIFICATION OF HOG-CHOLERA VIRUS IN FROZEN PORK IMPORTED FROM CHINA. (FR)
C Battelli G Caporale F Gramenzi E Nardi
Vet Ital 18(11-12):658-668
Nov 1967 41.8 C87
Food contamination, Foreign trade, Frozen food, Hog cholera virus, Livestock diseases, Pork, Swine, Virus diseases (animals).

14557-69
AN OUTBREAK OF PHOTOSENSITISATION IN KARAMOJONG SHEEP AT ENTEBBE.
O Bwangamoi
Bull Epizoot Dis Afr 15(4):379-388
Dec 1967 41.8 B872
Animal histology, Buckwheat, Hypericum, Lantana camara, Photosensitization, Sheep.

14558-69
ISOLATION OF TOXOPLASMA GONDII FROM SWINE AND CATTLE. FOLLOWING PESTICIDE TREATMENTS.
G Catar L Bergendi R Holkova
J Parasitol 55(5):952-955 REF
Oct 1969 448.8 J824
Azinphosethyl, Brain, Cattle, Livestock diseases, Muscles, Necrosis, Nitrogen, Peaches, Pesticides, Plant physiology, Sugars, Swine, Thiocarbamates, Toxoplasma gondii, Ziram. English abstract.

14559-69
A HISTOLOGICAL STUDY OF THE EFFECTS OF ENZOOTIC ABORTION OF EWES VIRUS IN THE LACTATING BOVINE MAMMARY GLAND.
A H Corner G L Bannister D P Hill
Can J Comp Med Vet Sci 32(1):372-381
Jan 1968 41.8 C162
Abortion, Animal histology, Cattle, Immunization, Lactation, Livestock diseases, Mammary glands, Mastitis, Necrosis, Sheep, Udders, Virus diseases (animals).

14560-69
IDENTIFICATION OF AEROMONADS IN FURRED ANIMALS. (DA)
H K Dahle K Nordstoga
Acta Vet Scand 9(1):65-70
1968 41.8 AC87
Aeromonas, Agar, Animal diseases, Bacteria, Enzymes, Fur-bearing animals, Infectious diseases, Injections, Serum. Norwegian and German summaries

14561-69
TITRATION OF SALMONELLA ABORTUS-OVIS STRAINS WITH CHICK EMBRYOS AND WHITE MICE.
R Dhawedkar G Kamburov N Mancheva
Bulg Akad Nauk Dokl 21(5):501-503
1968 512 SO2
Animal diseases, Chicks, Embryology, Listeria monocytogenes, Mice, Salmonella abortusovis, Volumetric analysis.

14562-69
AN OUTBREAK OF ANTHRAX IN MINK.
B Dick R Macrae
State Vet J 19(57):214-215
Sep 1964 SF601.S8
Anthrax, Antibiotics, Diet, Minks, Research.

14563-69
RELATIONSHIP OF ELECTROPHORETIC MOBILITY TO THE SIALIC ACID CONCENTRATION OF ERYTHROCYTES IN BOVINE ANAPLASMOSIS.
A R Dommert G T Dimopoullos
Amer J Vet Res 28(125):1173-1177 REF
Jul 1967 41.8 AM3A
Anaplasmosis, Biochemistry, Cattle, Electrophoresis, Erythrocytes, Sialic acids.

14564-69
SEROLOGIC DIAGNOSIS OF COLORADO TICK FEVER. A COMPARISON OF COMPLEMENT-FIXATION, IMMUNOFLUORESCENCE, AND PLAQUE-REDUCTION METHODS.
R W Emmons D V Dondero V Devlin E H Lennette
Amer J Trop Med Hyg 18(5):796-802
Sep 1969 448.8 AM326
Colorado tick fever virus, Diagnosis, Immunofluorescence, Plaque, Serological tests.

14565-69
OCCURRENCE OF TICK-BORNE ENCEPHALITIS VIRUS NEUTRALIZING ANTIBODY IN AQUATIC BIRDS IN CENTRAL EUROPE.
E Ernek O Kozuch K Hudec S Urban
Acta Virol 11(6):562
Nov 1967 448.3 AC85
Antibodies, Aquatic birds, Encephalitis, Insect vectors, Ixodides, Virus diseases (animals).

14566-69
FIBRINOGEN CONTENT AND FIBRINOLYTIC ACTIVITY OF PLASMA FROM DOGS INFECTED WITH LEPTOSPIRA CANICOLA.
D R Finco D G Low
Amer J Vet Res 29(10):2037-2040 REF
Oct 1968 41.8 AM3A
Dogs, Fibrinogen, Leptospira canicola, Metabolism, Serological tests.

14567-69
EFFECT OF BOVINE COCCIDIOSIS ON BLOOD SERUM SODIUM AND POTASSIUM LEVELS OF CALVES.
P R Fitzgerald
Amer J Vet Res 28(124):667-670
May 1967 41.8 AM3A
Blood chemistry, Blood serum, Calves, Coccidiosis, Eimeria, Potassium, Sodium.

14568-69
THE PREVALENCE OF BABESIA BOVIS (BABESIA ARGENTINA) IN THE BRAINS OF SLAUGHTER CATTLE IN NORTHERN NIGERIA.
C Folkers H Kuil N M Perie
Bull Epizoot Dis Afr 15(4):359-360
Dec 1967 41.8 B872
Anemia, Animal physiology, Babesia argentina, Babesia bigemina, Babesia bovis, Brain diseases, Cattle, Erythrocytes, Fever, Hemoglobinuria, Insect vectors, Ixodes ricinus, Livestock diseases, Piroplasmosis, Protozoa, Slaughtering.

14569-69
TRANSMISSION OF ATTENUATED AND VIRULENT BLUETONGUE VIRUS WITH CULICOIDES VARIIPENNIS INFECTED ORALLY VIA SHEEP.
N M Foster R H Jones A J Lucdke
Amer J Vet Res 29(2):275-279
Feb 1968 41.8 AM3A
Bluctonguc virus, Culicoidcs, Disease transmission, Epizootic diseascs, Sheep.

14570-69
PLAQUE CHARACTERISTICS OF FOUR CLASSES OF BOVINE VIRUSES.
J B Gratzck R F Roscnbusch G M Buening
Amer J Vet Res 28(124):641-646
May 1967 41.8 AM3A
Bovine entcroviruses, Bovinc rhinovirus, Bovinc virus diarrhea virus, Methodology, Parainfluenza-3 virus, Plaque assay.

14571-69
SPINY BURR GRASS--A SERIOUS AND INCREASING PROBLEM.
K R Green
Agr Gaz New S Wales 78(PT 10):578-579
Oct 1967 23 N472
Cattle, Cenchrus pauciflorus, Injuries, Pastures, Weeds.

Warnings to check for spiny burr grass, Cenchrus pauciflorus an injurious grass of cattle pastures in Australia are given.

14572-69
FURUNCULAR TUMBU FLY MYIASIS OF MAN IN GABON, EQUATORIAL AFRICA.
S Gunther
J Trap Med Hyg 70(7):169-174 REF
Jul 1967 448.8 J827
Animal diseases, Cordylobia anthropophaga, Diptera, Furunculosis, Immunity, Insect vectors, Myiasis, Tropical medicine.

14573-69
STUDIES ON A NEW INTRAMUSCULAR HAEMATINIC FOR PIGLET ANAEMIA. (DA)
K G Hogberg S Lindvall K Orth B Thafvelin K Uthnc
Acta Vet Scand 9(1):10-32 REF
1968 41.8 AC87
Absorption, Anemia, Baby pigs, Citric acid, Deficiency diseases, Dextrins, Drug therapy, Erythrocytes, Glucitol, Hcme, Hemoglobin, Iron, Lactic acid bacteria, Livestock diseases, Muscles, Serum, Swine. German summary

14574-69
EQUINE PIROPLASMOSIS: INTRAERYTHROCYTIC DEVELOPMENT OF BABESIA CABALLI (NUTTALL) AND BABESIA EQUI (LAVERAN).
A A Holbrook A J Johnson P A Madden
Amer J Vet Res 29(2):297-303 REF
Feb 1968 41.8 AM3A
Babesia caballi, Babesia equi, Erythrocytes, Horses, Life cycle, Piroplasmosis.

14575-69
GEOGRAPHICAL DISTRIBUTION MAPS OF ANIMAL DISEASES IN AFRICA, 1966.
Bull Epizoot Dis Afr 15(4):411-414 REF MAP
Dec 1967 41.8 B872
Livestock diseases, Lumpy skin disease, Salmonellosis, Tuberculosis, Zoogeography.

14576-69
ATTENUATION OF HOG CHOLERA VIRUS IN THE CARRIER CELL STRAINS ESTABLISHED FROM KIDNEYS OF PIGS EXPERIMENTALLY INFECTED WITH THE VIRULENT VIRUS.
H Izawa M Sockawa
Amer J Vet Res 28(127).1661-1669
Nov 1967 41.8 AM3A
Hog cholera virus, Immunization, Kidneys, Swine, Tissue culture.

14577-69
BLOOD CHANGES ASSOCIATED WITH LOCOWEED POISONING.
L F James W Binns
Amer J Vet Res 28(125):1107-1110 REF
Jul 1967 41.8 AM3A
Aminotransferases, Astragalus, Blood proteins, Liver, Poisonous plants, Sheep.

14578-69
BRUCELLOSIS VACCINATION IS NOW COMPULSORY.
S Jamieson
New Zeal J Agr 114(1):11-13
Jan 1967 23 N48J
Brucella abortus vaccines, Cattle, Immunization, Legislation.

The author discusses the law requiring all New Zealand farmers to vaccinate their cattle against brucellosis, including equipment and techniques to be employed.

14579-69
SEX DIFFERENCES IN EMBRYONIC RESPONSE TO EIMERIA TENELLA INFECTION.
T K Jeffers G E Wagenbach
J Parasitol 55(5):949-951 REF
Oct 1969 448.8 J824
Chicks, Cytoplasm, Eimeria tenella, Embryos, Hemagglutination, Insect biochemistry, Insect diseases, Insect histology, Mortality, Polyhedroses, Poultry diseases, Bombyx mori, Viruses.

14580-69
THE PROTECTION OF A SMALL GROUP OF NIGERIAN TRADE CATTLE FROM TRYPANOSOMIASIS USING SAMORIN.
W J Jones-Davies
Bull Epizoot Dis Afr 15(4):323-335
Dec 1967 41.8 B872
Cattle, Drug therapy, Glossina morsitans, Glossina palpalis, Glossina tachinoides, Insect vectors, Isometamidium chloride, Livestock diseases, Microfilariae, Piroplasmosis, Trypanosoma brucei, Trypanosoma congolense, Trypanosoma vivax, Trypanosomiasis.

14581-69
ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964--1967. I. INTRODUCTION.
R H Kokernot C A Brandly
Amer J Trap Med Hyg 18(5):743-749 MAP REF
Sep 1969 448.8 AM326
Arboviruses, Birds, Culicidae, Hemagglutination, Surveys.

14582-69
ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964--1967. VII. LONE STAR VIRUS, A HITHERTO UNKNOWN AGENT ISOLATED FROM THE TICK AMBLYOMMA AMERICANUM (LINN.).
R H Kokernot C H Calisher L J Stannard J Hayes
Amer J Trap Med Hyg 18(5):789-795 REF
Sep 1969 448.8 AM326
Amblyomma americanum, Antibodies, Arboviruses, Sodium deoxycholate, Surveys, Virology.

14583-69
ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964--1967. V. TRIVITTATUS AND WESTERN EQUINE ENCEPHALOMYELITIS VIRUSES.
R H Kokernot J Hayes D H M Chan K R Boyd
Amer J Trop Med Hyg 18(5):774-778 REF
Sep 1969 448.8 AM326
Antibodies, Arboviruses, Surveys, Western equine encephalomyelitis virus.

14584-69
A CASE OF OVINE DERMATOMICOSIS PRODUCED BY TRICHOPHYTON VERRUCOSUM. (SP)
M B V Kolar De P C Bonatto De
La Plata Univ Nac Fac Cienc Vet Rev 8(18):35-38 REF
Jan 1966 41.9 L313
Fungi, Ringworm, Sheep, Trichophyton verrucosum. French summary

14585-69
THE TEMPERATURE REQUIREMENTS FOR INTERFERON PRODUCTION IN CELLS STIMULATED BY NEWCASTLE DISEASE VIRUS OR MICROBIAL AGENTS IN VITRO.
V Lackovic L Boreeky D Sikl L Masler S Baver
Acta Viral 11(6):500-505 REF
Nov 1967 448.3 AC85
Animal diseases, Antigens, Bacteriology, Candida albicans, Cytology, Escherichia coli, Interferon, Leukocytes, Mice, Microbiology, Newcastle disease virus, Salmonella typhimurium, Temperature, Virology.

14586-69
SOME PHYSICAL PROPERTIES OF PURIFIED NEUROTROPIC FOOT-AND-MOUTH DISEASE VIRUS.
H Liebermann H Gralheer
Acta Viral 12(2):181-182
May 1968 448.3 AC85
Chemical reactions, Foot-and-mouth disease virus, Neurotropic viruses, Physiology, Picornaviruses, Sedimentation, Ultraviolet therapy, Virology, Virus diseases (animals).

14587-69
AN IMMUNITY TEST IN CATTLE TO COMPARE TWO CONTAGIOUS BOVINE PLEUROPNEUMONIA VACCINES.
E P Lindley
Bull Epizaat Dis Afr 15(4):307-311 REF
Dec 1967 41.8 B872
Agar, Bacteriology, Cattle, Contagious bovine pleuropneumonia, Fermentation, Immunity, Infectious diseases, Livestock diseases, Mycoplasma mycoides, Vaccines.

14588-69
SEROLOGICAL RESPONSE IN CATTLE TO EAST COAST FEVER (THEILERIA PARVA INFECTION) AS MEASURED BY THE INDIRECT FLUORESCENT ANTIBODY TEST.
K F Lohr J P J Ross
Res Vet Sci 10(5):453-460 REF
Sep 1969 41.8 R312
Antibodies, Antigens, Cattle, Fluorescent antibody technic, Insect biology, Insect taxonomy, Serological tests, Spodoptera, Theileria parva, Zoogeography.

14589-69
SOME ASPECTS OF THE ETIOLOGY OF ENZOOTIC ICTERUS (GEELSIEKTE) AND TRIBULOSIS OVIS (GEELDIKKOP).
G N Louw C W P Steenkamp E L Steenkamp
S Afr J Agr Sci 10(1):215-228 MAP REF
Mar 1967 24 SU3
Jaundice, Liver, Plants, Selenium poisoning, Sheep, Toxicology, Tribulosis.

14590-69
ANTIBODIES TO LEPTOSPIRAL SEROTYPES IN SERA OF NORTH QUEENSLAND CATTLE.
M H Lucas
Queensland J Agr Anim Sci 23(2):309-315 MAP
Jun 1966 23 Q37
Antibodies, Cattle, Leptospira, Serological tests, Zoogeography.

14591-69
ENTEROTOXAEMIA IN SHEEP ON DRY FEED.
J F Macadam P T Diplock
Agr Gaz New S Wales 78(PT 12):733-734
Dec 1967 23 N472
Bacterial diseases (animals), Clostridium perfringens, Enterotoxemia, Feed Immunization, Sheep.

Outbreaks of enterotoxemia in sheep of Australia, the causative agent, Clostridium perfringens, and vaccination procedures are discussed.

14592-69
SKIN DISEASES OF HORSES.
W Marbach
Agr Gaz New S Wales 78(PT 12):738-741

Dec 1967 23 N472
Culicoides, Horses, Mange, Photosensitization, Ringworm, Skin diseases, Urticaria.

Treatment of skin diseases of horses in Australia is discussed.

14593-69
IN VIVO DEMONSTRATION OF LABILITY OF HOG CHOLERA VIRUS TO LIPOLYTIC AGENTS.
G E McKissick D P Gustafson
Amer J Vet Res 28(125):909-914 REF
Jul 1967 41.8 AM3A
Chloroform, Ethyl ether, Hog cholera virus, Immunochemistry, Inactivating agents, Lipids.

14594-69
DIAPLACENTARIAN IMMUNITY TO FOOT-AND-MOUTH VIRUS IN NURSING RATS: CORRELATION AND REGRESSION. (SP)
E S Menchaca A S Sequeira
La Plata Univ Nac Fac Cienc Vet Rev 8(18):13-22 REF
Jan 1966 41.9 L313
Biological transport, Foot-and-mouth disease virus, Immunity, Nursing, Picornaviruses, Placenta, Rats, Virus diseases (animals).

14595-69
STUDY OF THE PRACTICABILITY OF VARIOUS DIAGNOSTIC METHODS IN THE DEMONSTRATION OF SWINE FEVER VIRUS OF HIGH AND LOW VIRULENCE IN ORGANS OF EXPERIMENTALLY INFECTED PIGS. (DA)
A Meyling K Schjerning-Thiesen
Acta Vet Scand 9(1):50-64 REF
1968 41.8 AC87
Agar, Animal physiology, Complement fixation, Diagnosis, Fluorescent antibody technic, Hog cholera, Injections, Livestock diseases, Swine, Tissue culture, Virus diseases (animals), Viscera. German summary

14596-69
EVOLUTION OF THE ANTIBODY CURVE IN ANIMALS EXPERIMENTALLY INOCULATED WITH AEQUI/URUGUAY/540/63. (SP)
R E S Moreira H C Tosi E F Vallone R M Canto
La Plata Univ Nac Fac Cienc Vet Rev 8(18):63-67 REF
Jan 1966 41.9 L313
Agglutination test, Antibodies, Equine influenza viruses, Erythrocytes, Influenza, Injections, Virus diseases (animals). French summary

14597-69
NAIROBI SHEEP DISEASE: A STUDY OF IT'S PATHOGENESIS IN SHEEP, GOATS AND SUCKLING MICE.
G M Mugera S Chema
Bull Epizoot Dis Afr 15(4):337-354
Dec 1967 41.8 B872
Animal histology, Animal physiology, Erythrocytes, Gastroenteritis, Goats, Hematology, Hemoglobin, Kidneys, Lesions, Leukocytes, Liver, Livestock diseases, Mice, Nairobi sheep disease virus, Pathogenesis, Sheep, Virus diseases (animals).

Abstract: In sheep and goats, the glomerulo-tubular nephritis (kidney), hyaline degeneration and fragmentation of myocardial fibers, and coagulative necrosis of gall bladder were consistent lesions. In mice, liquefactive necrosis characterised by focal cystic areas with haemorrhag -es and lymphocytic infiltration, especially around blood vessels. all these characteristics are of Nairobi Sheep Diseases in these animals.

14598-69
PSEUDOMONAS INFECTIONS IN MINK WITH SPECIAL REFERENCE TO PSEUDOMONAS VASCULITIS IN PULMONARY LESIONS. (DA)
K Nordstoga
Acta Vet Scand 9(1):33-40
1968 41.8 AC87
Anemia, Animal histology, Bacteria, Exudates, Hemorrhage, Infectious diseases, Laboratory animals, Leukocytes, Minks, Pseudomonas, Tissues. German and Norwegian summaries.

14599-69
EXPERIMENTAL STUDIES ON ASPERGILLOSIS (I). (JA)
S Ogawa M Kuroda T Nakajima F Ito M Yamamoto K Tatsuyama
Mycol Soc Jap Trans 8(2):87-91
01 Sep 1967 451 N622
Animal diseases, Aspergillosis, Fungi, Mycology, Mycosis.

14600-69
HISTOPATHOLOGIC AND HEMATOLOGIC CHANGES IN MORIBUND STAGES OF CHICKS INFECTED WITH T-VIRUS.
L D Olson
Amer J Vet Res 28(126):1501-1507
Sep 1967 41.8 AM3A
Chicks, Hematology, Histology, Liver, Mortality, Poultry, Spleen, Virus diseases (animals).

14601-69
EXPERIMENTAL INACTIVATED-VIRUS HOG CHOLERA VACCINES: INDUCTION PERIOD OF IMMUNITY.
E I Pilchard
Amer J Vet Res 28(125):915-923 REF
Jul 1967 41.8 AM3A
Bordetella, Hog cholera vaccines, Immunity, Inactivating agents, Swine.

14602-69
VARIABLE RESISTANCE OF COWS TO STREPTOCOCCUS AGALACTIAE MASTITIS.
W D Pounden N A Frank J V Bateman J Blydenstein
Amer J Vet Res 28(127):1735-1742 REF
Nov 1967 41.8 AM3A
Cattle, Immunity, Mastitis, Streptococcus agalactiae.

14603-69
MULTIPLICATION OF TRIBEC VIRUS IN CHICK EMBRYO CELL CULTURES: CYTOPHATIC CHANGES AND IMMUNOFLUORESCENCE.
J Rajcani M Gresikova
Acta Virol 11(6):527-532
Nov 1967 448.3 AC85
Cells, Chick embryos, Cytology, Fluorescence microscopy, Fluorescent antibody technic, Immunology, Tribec virus, Virology, Virus diseases (animals).

14604-69
LYOPHILIZING FOOT-AND-MOUTH DISEASE VIRUS AT LOW DRYING TEMPERATURE.
H Ramyar E Traub
Amer J Vet Res 28(126):1605-1608 REF
Sep 1967 41.8 AM3A
Drying, Foot-and-mouth disease virus, Lyophilization, Storage, Temperature, Virus diseases (animals).

14605-69
ANTIBODY IN EXPERIMENTALLY INFECTED SHEEP AND ANTIFOOT-AND-MOUTH DISEASE VACCINES. (SP)
S Rivenson M Segura M M Zakin
La Plata Univ Nac Fac Cienc Vet Rev 8(18):53-58
Jan 1966 41.9 L313
Antibodies, Foot-and-mouth disease, Injections, Livestock diseases, Sheep, Vaccines, Virus diseases (animals). French summary

14606-69
IMMUNOLOGICAL RESPONSE IN COWS TO MYCOPLASMA BOVIGENITALIUM, STRAIN 1836.
D H Roberts
J Hyg 66(4):585-593 REF
Dec 1968 449.8 J82
Cattle, Immunization, Mycoplasma, Serological tests.

14607-69
A COMPARISON OF THE HAEMAGGLUTINATION-INHIBITION AND NEUTRALISATION TEST IN THE ASSAY OF RINDERPEST ANTIBODIES IN CATTLE.
L W Rowe D Zwart B Kouwenhoven
Bull Epizoot Dis Afr 15(4):301-305 REF
Dec 1967 41.8 B872
Antibodies, Biological assay, Cattle, Hemagglutination-inhibition test, Immunochemistry, Livestock diseases, Myxoviruses, Neutralization test, Rinderpest, Virus diseases (animals).

14608-69
WARFARIN TREATMENT OF MICE BEARING AUTOCHTHONOUS TUMORS: EFFECT ON SPONTANEOUS METASTASES.
J J Ryan A S Ketcham H Wexler
Science 162(3861):1493-1494 REF
27 Dec 1968 470 SCI2
Drug therapy, Lungs, Metastasis, Mice, Mortality, Neoplasms, Warfarin.

14609-69
VARIFICATION OF ANTIBODIES OF NEWCASTLE VIRUS IN RATS INOCULATED WITH DIFFERENT TYPES OF EXPERIMENTAL VACCINES. (SP
R M Scapin B Epstein
La Plata Univ Nac Fac Cienc Vet Rev 8(18):25-27 REF
Jan 1966 41.9 L313
Antibodies, Injections, Newcastle disease vaccines, Newcastle disease virus, Rats, Vaccines, Virus diseases (animals).

14610-69
EFFECTS OF HUMORAL AND CELLULAR PHASES OF ACUTE INFLAMMATION IN THE BOVINE MAMMARY GLAND ON AEROBACTER AEROGENES INTRODUCED EN MASSE AND ON LEUKOCYTES IN MILK.
O W Schalm J Lasmanis N C Jain
Amer J Vet Res 28(126):1251-1256
Sep 1967 41.8 AM3A
Aerobacter aerogenes, Cattle, Immunology, Mammary glands, Mastitis.

14611-69
RELATIONSHIP OF PLAQUE SIZE AND VIRULENCE FOR CHICKENS OF 14 REPRESENTATIVE NEWCASTLE DISEASE VIRUS STAINS.
G M Schloer R P Hanson
J Virology 2(1):40-47 REF
Jan 1968 QR360.J6
Chickens, Newcastle disease virus, Virus diseases (animals).

14612-69
USE OF SODIUM ALGINATE ADJUVANT IN IMMUNIZATION AGAINST EQUINE INFLUENZA.
I L Shechmeister T Aeschliman W G Kammlade
Amer J Vet Res 28(126):1373-1378 REF
Sep 1967 41.8 AM3A
Equine influenza, Horses, Immunization, Methodology, Sodium alginate, Vaccines.

14613-69
CONTAGIOUS BOVINE PLEUROPNEUMONIA IN WILDLIFE.
M Shifrine C H Domermuth
Bull Epizoot Dis Afr 15(4):319-321
Dec 1967 41.8 B872
Bacteriology, Complement fixation, Contagious bovine pleuropneumonia, Infectious diseases, Mycoplasma mycoides, Wildlife diseases.

14614-69
COMPARATIVE MORPHOLOGIC FEATURES OF BABESIA CABALLI AND BABESIA EQUI.
C F Simpson W W Kirkham J M Kling
Amer J Vet Res 28(127):1693-1697
Nov 1967 41.8 AM3A
Babesia caballi, Babesia equi, Electron microscopy, Erythrocytes, Histology, Horses, Piroplasmosis.

14615-69
HEMAGGLUTINATION AND HEMOLYSIS OF ERYTHROCYTES OF UNRELATED SPECIES

OF ANIMALS BY THE BLACKSBURG STRAIN OF NEWCASTLE DISEASE VIRUS.
M Slifkin L Thompson
Amer J Vet Res 28(124):819-823 REF
May 1967 41.8 AM3A
Erythrocytes, Ferrets, Frogs, Hemagglutination, Newcastle disease virus, Turtles.

14616-69
MORPHOLOGIC FEATURES OF HAEMOBARTONELLA FELIS.
E Small M Ristic
Amer J Vet Res 28(124):845-851 REF
May 1967 41.8 AM3A
Acridine dyes, Blood parasites, Cats, Electron microscopy, Fluorescent antibody technic, Haemobartonella, Histology.

14617-69
VACCINATION AGAINST LEPTOSPIROSIS: PROTECTION OF HAMSTERS AND SWINE AGAINST RENAL LEPTOSPIROSIS BY KILLED BUT INTACT GAMMA-IRRADIATED OR DIHYDROSTREPTOMYCIN-EXPOSED LEPTOSPIRA POMONA.
O H V Stalheim
Amer J Vet Res 28(127):1671-1676 REF
Nov 1967 41.8 AM3A
Gamma rays, Hamsters, Immunization, Leptospira pomona, Swine, Vaccines.

14618-69
VARIATIONS IN ISOLATIONS OF PATHOGENIC BACTERIA FROM THE UDDERS OF COWS DURING A SIX-MONTH PERIOD.
W H Thompson B A Houston
Australian Vet J 44(2):68-71
Feb 1968 41.8 AU72
Livestock diseases, Mastitis, Staphylococcus, Surveys.

14619-69
VIROLOGICAL, HISTOPATHOLOGICAL AND HISTOCHEMICAL BEHAVIOR OF THE CORIOALANTOIS OF CHICK EMBRYOS INOCULATED WITH AEQUI/URUGUAY/540/1963 VIRUS. (SP)
E F Vallonc R M Canto R E S Moreira H C Tosi C A Bauza
La Plata Univ Nac Fac Cienc Vet Rev 8(18):69-87 REF
Jan 1966 41.9 L313
Chickens, Embryology, Equine influenza viruses, Histochemistry, Histopathology, Influenza, Injections, Virology, Virus diseases (animals). French summary

14620-69
A STUDY OF THE PHYSICAL PROPERTIES OF THE IMMUNIZING ANTIGEN OF FOOT-AND-MOUTH DISEASE VIRUS AND THE EFFECT OF VARIOUS INACTIVATING AGENTS ON ITS STRUCTURE.
T F Wild F Brown
Arch Gesamte Virusforsch 24(1-2):86-103
Jun 1968 448.3 AR23
Antigens, Biophysics, Foot-and-mouth disease virus, Formaldehyde, Immunization, Inactivating agents, Picornaviruses.

14621-69
THE PERSISTENCE OF DRUG RESISTANCE IN STRAINS OF EIMERIA SPECIES IN BROILER CHICKENS FOLLOWING A CHANGE OF COCCIDIOSTAT.
R B Williams
Res Vet Sci 10(5):490-492
Sep 1969 41.8 R312
Chickens, Coccidiostats, Decoquinate, Drug resistance, Drug therapy, Eimeria, Ichneumonidae, Insect taxonomy, Lepidoptera, Parasitic insects, Poultry diseases.

14622-69
INHIBITION OF HOST-CELL PROTEIN AND RIBONUCLEIC ACID SYNTHESIS BY NEWCASTLE DISEASE VIRUS.
D E Wilson
J Virology 2(1):1-6 REF
Jan 1968 QR360.J6
Cells, Newcastle disease virus, Physiology, Proteins, Ribonucleic acid, Virus diseases (animals).

14623-69
EXPERIMENTAL AEROSAL TRANSMISSION OF YABA VIRUS IN MONKEYS.
L G Wolfe
Diss Abstr Sect B 29(5):1740B
Nov 1968 Z5055.U49D53
Aerosols, Infectious diseases, Monkeys, Neoplasms, Virus diseases (animals), Yaba monkey tumor virus.

ARTHROPODS

14624-69
FIRST RECORDS OF EYE-FREQUENTING LEPIDOPTERA FROM INDIA.
W Buttiker
Rev Suisse Zool 74(2):389-398 MAP
Sep 1967 410 R324
Eyes, Insect pests, Livestock, Noctuidae, Pyralidae, Surveys, Zoogeography.

14625-69
CAN YOU AFFORD CATTLE LICE .
F W Evans
Agr Gaz New S Wales 78(PT 6):334-335
Jun 1967 23 N472
Anemia, Cattle, Chemical control (insects), Diagnosis, Haematopinus eurysternus, Linognathus vituli.

The life cycle, prevalance, symptoms, diagnosis, and chemical control of lice on Australian cattle are discussed.

14626-69
ASUNTOL AND NEGUVON IN THE FIGHT AGAINST DOG FLEAS. (SP)
J Galofre J Boero C Torrado
La Plata Univ Nac Fac Cienc Vet Rev 8(18):9-12
Jan 1966 41.9 L313
Chemical control (insects), Coumaphos, Dogs, Insect pests, Insecticides, Organophosphorus compounds, Siphonaptera, Trichlorfon.

14627-69
BIOLOGY OF HYPHANTRIA CUNEA DRURY (LEPIDOPTERA: ARCTIIDAE IN JAPAN. I. NOTES ON ADULT BIOLOGY WITH REFERENCES TO THE PREDATION BY BIRDS.
H Hasegawa Y Ito
Appl Entomol Zool 2(2):100-110 REF
Jun 1967 SB599.A6
Biological control (insects), Hyphantria cunea, Insect biology, Predatory birds, Research, Weather.

14628-69
CONTROLLING EXTERNAL PARASITES OF SHEEP.
E S Millar
New Zeal J Agr 114(4):16-21,23,25 REF
Apr 1967 23 N48J
Acarina, Anoplura, Calliphoridae, Chemical control (pests), Life cycle, Melophagus ovinus, Sheep, Sheep-dip.

Ectoparasites of sheep in New Zealand are discussed including notes on their biology and means for control.

14629-69
ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.
M D Murray
Australian J Zool 16(5):725-738
Nov 1968 410 AU73
Anoplura, Damalinia ovis, Insect ecology, Population, Sheep, Sheep shearing, Solar radiation. Part V. in vol. 11:173-182, 1963

PARASITES

14630-69
COMPARATIVE ANTHELMINTIC EFFICIENCIES OF PARBENDAZOLE, THIABENDAZOLE, AND PHENOTHIAZINE IN LAMBS.
D G Bennett
Amer J Vet Res 29(12):2325-2530
Dec 1968 41.8 AM3A
Anthelmintics, Drug therapy, Haemonchus contortus, Lambs, Nematodirus, Phenothiazine, Thiazolyl)-benzimidizole, 2-(4-.

14631-69
WARBLE FLY LARVAE CONTROL STUDY.
T D Burgess W C Allan J Mozier
Entomol Soc Ontario Proc 97:117-120
1966 420 ON8
Cattle, Chemicals, Insect control, Insecticides, Larvae, Oestridae, Research.

14632-69
EPIZOOTIOLOGIC FACTORS OF FASCIOLOIDES MAGNA (TREMATODA) IN OREGON AND SOUTHERN WASHINGTON.
V J Dutson J N Shaw S E Knapp
Amer J Vet Res 28(124):853-860 MAP REF
May 1967 41.8 AM3A
Epizootic diseases, Fascioloidiasis, Snails, Surveys, Zoogeography.

14633-69
DEVELOPMENT OF CAENORHABDITIS BRIGGSAE AND HYMENOLEPIS NANA IN INTERCHANGED MEDIA. FRANCE.
E L Hansen A K Berntzen
J Parasitol 55(5):1012-1017 REF
Oct 1969 448.8 J824
Chemical analysis, Culture media, Helminths, Hymenolepis nana, Insect biology, Insect outbreaks, Macrosiphum avenae, Physiology, Rearing, Wheat. English abstract.

14634-69
KERATO-CONJUNCTIVITIS IN CATTLE IN THE PLATEAU AREA OF NORTHERN NIGERIA. A STUDY OF THELAZIA RHODESII AS A POSSIBLE AETIOLOGICAL AGENT.
M M Ikeme
Bull Epizoot Dis Afr 15(4):363-367 REF
Dec 1967 41.8 B872
Cattle, Ceratopogonidae, Eyes, Fulani cattle, Haematopota, Helminthiasis, Insect vectors, Keratoconjunctivitis, Livestock diseases, Microbiology, Microorganisms, Moraxella bovis, Musca domestica, Parasitism, Simulium, Stomoxys calcitrans, Thelazia rhodesii, Thelaziasis.

14635-69
FIELD TRIALS ON THE EFFICACY OF THIABENDAZOLE AGAINST HAEMONCHUS CONTORTUS IN WEST AFRICAN DWARF FOREST SHEEP AND GOATS.
M Irfan
Bull Epizoot Dis Afr 15(4):369-371 REF
Dec 1967 41.8 B872
Anthelmintics, Dosage, Goats, Haemonchus contortus, Helminthiasis, Livestock diseases, Nematodes, Ovulation, Parasitism, Sheep, Thiabendazole.

Abstract: Thiabendazole at a dosage of 66 or 88 miligrams/ kilograms body weight was very effective against natural infestation of Haemonchus contortus in West African dwarf forest sheep and goats.

14636-69
THE CHROMOSOME NUMBERS OF OESOPHAGOSTOMUM COLUMBIANUM CUTICE AND CHABERTIA OVINA FABRICIUS (NEMATODA, STRONGYLATA).
L F Le Jambre
Amer Microscop Soc Trans 87(1):105-106
Jan 1968 440.9 AM33
Chabertia ovina, Chromosomes, Methodology, Oesophagostomum, Sheep.

14637-69
FINE STRUCTURE OF THE INTESTINAL EPITHELIUM OF DIROFILARIA IMMITIS AND CHANGES OCCURRING AFTER VERMICIDAL TREATMENT WITH CAPARSOLATE SODIUM.
C C Lee J H Miller
J Parasitol 55(5):1035-1045 REF
Oct 1969 448.8 J824
Arsenamide, Bacillus thuringicnsis, Bcauveria bassiana, Biological control (insects), Cytology, Dirofilaria immitis, Electron microscopy, Insect pests.

14638-69
FINE STRUCTURE OF LEUKOCYTES ADHERING TO THE CUTICLE OF ASCARIS SUUM LARVAE. II. POLYMORPHONUCLEAR LEUKOCYTES.
D J Morseth E J L Soulsby
J Parasitol 55(5):1025-1034
Oct 1969 448.8 J824
Acarina, Ascaris lumbricoides suum, Brevipalpus, Cell nucleus, Chemical control (insects), Cuticle, Cytology, DDT, Eriophyidae, Insecticide resistant insects, Larvae, Leukocytes, Ornamental plant culture, Polymorphism, Rhizoglyphus echinopus, Tarsonemidae, Tetranychidae.

14639-69
PULMONARY DISEASE IN KENYA SHEEP.
M Murray
Bull Epizoot Dis Afr 15(4):355-357
Dec 1967 41.8 B872
Cysts, Dictyocaulus filaria, Echinococcus granulosus, Helminthiasis, Livestock diseases, Lungs, Muellerius capillaris, Parasitic bronchitis, Parasitism, Pneumonia, Protostrongylus, Pulmonary adenomatosis, Sheep.

14640-69
CHARACTERISTICS FOR TWO CLASSES OF EMBRYONIC CELLS IN ONCOSPHERES OF HYMENOLEPIS DIMINUTA STAINED FOR CYTOPLASMIC SUBSTANCES.
R E Ogren
Amer Microscop Soc Trans 87(1):82-97 REF
Jan 1968 440.9 AM33
Biochemistry, Cytology, Embryology, Hymenolepis diminuta.

14641-69
THE BASIC CELLULAR PATTERN FOR UNDIFFERENTIATED ONCOSPHERES OF HYMENOLEPIS DIMINUTA.
R E Ogren
Amer Microscop Soc Trans 87(4):448-463 REF
Oct 1968 440.9 AM33
Cytology, Hymenolepis diminuta, Physiology.

14642-69
LOCALIZATION OF GLYCOGEN IN THE CESTODE, HYMENOLEPIS DIMINUTA.
M Reissig A V Colucci
J Cell Biol 39(3):754-763 REF
Dec 1968 442.8 J828
Cestoda, Electron microscopy, Glycogen, Hymenolepis diminuta, Rats.

14643-69
RESPIRATORY ACTIVITY OF TRYPANOSOMA LEWISI DURING SEVERAL PHASES OF INFECTION IN THE RAT.
G Sanchez D G Dusanic
Exp Parasitol 23(3):361-370 REF
Dec 1968 436.8 EX7
Antimetabolites, Biochemistry, Infectious diseases, Metabolism, Rats, Respiration, Trypanosoma lewisi.

14644-69
TRYPANOSOMA LEWISI: CREATINE PHOSPHOKINASE, ORNITHINE CARBAMYL TRANSFERASE, ATPASES, PI, AND GLUCOSE LEVELS IN THE RAT HOST.
G Sanchez D G Dusanic
Exp Parasitol 23(3):371-378 REF
Dec 1968 436.8 EX7
Biochemistry, Enzymes, Infectious diseases, Metabolism, Rats, Trypanosoma lewisi.

14645-69
BLOOD CHEMICAL AND CELLULAR CHANGES IN CANINE DIROFILARIASIS.
J W Snyder S K Liu R J Tashjian
Amer J Vet Res 28(127):1705-1710
Nov 1967 41.8 AM3A
Biochemistry, Blood proteins, Dirofilariasis, Dogs.

14646-69
EFFICACY OF NICLOSAMIDE IN THE TREATMENT OF TAENIA TAENIAEFORMIS INFECTIONS IN CATS.
R B Wescott
Amer J Vet Res 28(126):1475-1477
Sep 1967 41.8 AM3A
Cats, Cestoda, Drug therapy, Niclosamide, Taenia taeniaeformis, Taeniasis.

COMMODITY PROTECTION

ARTHROPODS

14647-69
SUSCEPTIBILITY OF 'TAPIOCA MACARONI' TO INSECT ATTACK.
H G Khalsa B S Nigam
Pesticides 1(9):31-33 REF
May 1968 SB951.P43
Cassava, Insect pests, Macaroni, Starches, Stored products. Tapioca macaroni is a commercial product made of cassava starch, peanut and wheat flours.

RODENTS AND OTHER PESTS

14648-69
A NEW IDEA FROM CALIFORNIA--LOLLIPOP BAIT CUBE.
Anonymous
Pest Contr 36(10):30,32,34,36
Oct 1968 449.8 EX8
Animal traps, Baits, Chemical control (pests), Diphacinone, Paraffin wax, Pindone, Rats, Rodent control.
The use of diphacinone in paraffin wax for rat baits in California is discussed.

MICROBIAL CONTAMINATION

14649-69
WHAT THE SANITARIAN SHOULD KNOW ABOUT STAPHYLOCOCCI AND SALMONELLAE IN NON-DAIRY PRODUCTS. II. SALMONELLAE.
F L Bryan
J Milk Food Technol 31(5):131-140 REF
May 1968 44.8 J824
Agricultural products, Epidemiology, Feed, Food processing, Livestock, Microbiology, Poultry, Salmonella paratyphi, Salmonella typhimurium, Spraying, Staphylococcus.

14650-69
PREPARATION OF DEHYDRATED TOMATO POWDER SAMPLES FOR HOWARD MOLD COUNT.
B Krinitz
Ass Offic Anal Chem J 51(1):78-80
Jan 1968 381 AS7
Methodology, Molds, Temperature, Tomatoes.

14651-69
STUDY OF THE ANTIFUNGAL PROPERTIES OF 8-HYDROXYQUINOLINE TARTRATE.
M N Rotmistrov I A Vasilevskaya E M Skrynik Z A Sukhorukova
Microbiology 37(3,MAY-JUN):377-380
Jun 1968 448.3 M582AE
Cladosporium, Fungi, Fungicides, Hydroxyquinoline, Penicillium, Tartrates, Wine. Russian journal- vol. 37(3):466-470, May-Jun. 1968

ENVIRONMENTAL CONTAMINATION

14652-69
GUIDELINES FOR EVALUATING THE PROPERTIES OF PESTICIDES FOR SAFE USE IN THE WILDLIFE ENVIRONMENT.
E E Kenaga
Down Earth 23(4):11-18 SPRING
1968 381 D75
Accident prevention, Air pollution, Animal ecology, Biochemistry, Dosage, Environment, Pesticide application, Pesticide residues, Pesticides, Toxicology, Water pollution, Wildlife.

RESIDUES

14653-69
INFLUENCE OF RESIDUES OF SOME TRIAZINE HERBICIDES UPON WHEAT AND WEEDS IN WHEAT CROPS. (CZ)
T Cincovic B Sinzar
Zastita Bilja 12(91-92):293-304 REF
1966 464.8 Z1
Atrazine, Chemical control (weeds), Herbicide residues, Herbicides, Simazine, Soil properties, Triazine, Weed control, Weeds, Wheat. English summary

14654-69
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
R E Duggan
Fed Regist 33(240):18408
11 Dec 1968 L1.451
Agricultural products, Benzo(b)thiophene-4-ol, Benzothienyl N-methylcarbamate, 4-, Biochemistry, Corn, Feed, Forage plants, Insecticides, Pesticide residues.

14655-69
5,6-DICHLORO-1-PHENOXYCARBONYL-2-TRIFLUOROMETHYLBENZIMIDAZOLE. NOTICE OF EXTENSION OF TEMPORARY TOLERANCE.
J K Kirk
Fed Regist 34(19):1406
29 Jan 1969 L1.451
Insecticides, Dichloro-1-phenoxycarbonyl-2-trifluoromethylbenzimidazole, 5 ,.

14656-69
SYSTEMIC ACTIVITY OF ZECTRAN, MATACIL AND BIDRIN INJECTED INTO CONIFER TRUNKS.
J E Larson G R Pieper H C Ratsch
Pest Mont J 1(2):49-53
Sep 1967 SB951.A1P41
Abies grandis, Biological assay, Chemicals, Choristoneura fumiferana, Coniferae, Dimethylamino)-m-tolyl methylcarbamate, 4-(, Dimethylamino-3,5-xylyl methylcarbamate, 4-, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3 -, Insecticides, Organophosphorus compounds, Pesticide residues, Pseudotsuga menziesii, Tables (data).

14657-69
ORGANOCHLORINE INSECTICIDE RESIDUES IN COMPLETE PREPARED MEALS: A 12-MONTH SURVEY IN S. E. ENGLAND. GEOMETRICAL ISOMERS OF CHRYSANTHEMIC, PYRETHRIC AND RELATED ACIDS AND OPTICAL ISOMERS OF CINEROLONE AND ALLETHROLONE.

A E J McGill J Robinson C Potter
Food Cosmet Toxicol 6(1):45-57 REF
Jun 1968 391.8 F73
Acids, Allethrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Dysdercus fasciatus, Esters, Food analysis, Insecticide residues, Insecticides, Musca domestica, Pyrethrum, Tenebrio molitor, Toxicology.

14658-69
THE DETERMINATION OF SOME SUBSTITUTED UREA HERBICIDE RESIDUES IN SOIL BY ELECTRON-CAPTURE GAS CHROMATOGRAPHY.
C E McKone
J Chromatography 44(1):60-66 REF
14 Oct 1969 475 J824
Chromatography, Electron capture, Herbicide residues, Herbicides, Linuron, Urea herbicides.

14659-69
DETERMINATION OF INSECTICIDE RESIDUE IN ANIMAL AND PLANT TISSUES. IV: DETERMINATION OF RESIDUAL AMOUNT OF SUMITHION AND SOME OF ITS METABOLITES IN FRESH MILK.
J Miyamoto Y Sato S Suzuki
Botyu-kagaku 32(4):95-100 REF
Nov 1967 421 B65
Animals, Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Insecticide residues, Metabolites, Milk, Organophosphorus compounds, Plants, Tissues.

TOXICOLOGY

14660-69
EXCRETION OF AFLATOXIN IN A LACTATING COW. DROSOPHILA MELANOGASTER TO ANESTHESIA.
R Allcroft B A Roberts M K Lloyd
Food Cosmet Toxicol 6(5):619-625
Dec 1968 391.8 F73
Aflatoxin, Anesthesia, Biochemistry, Carbon dioxide, Cattle, Drosophila melanogaster, Ethyl ether, Excretion, Insect physiology, Lactation, Milk, Temperature, Urine.

14661-69
TWO CASES OF UREA POISONING IN DAIRY HERDS.
M W Crowe
Mod Vet Pract 49(3):40-41
Mar 1968 41.8 N812
Autopsies, Dairy cattle, Feed toxicity, Microorganisms, Nitrogen, Ruminants, Sheep, Toxicology, Urea.

14662-69
EFFECT OF CARBARYL ON THE NEUROENDOCRINE SYSTEM OF RATS. FOODSTUFFS: A MULTI-DETECTION SCHEME FOR GAS CHROMATOGRAPHY OF SOLVENT EXTRACTS.
A I Shtenberg M N Rybakova
Food Cosmet Toxicol 6(4):461-467 REF
Dec 1968 391.8 F73
Animal physiology, Carbamates, Carbaryl, Chemical analysis, Chromatography, Fumigants, Grain, Insecticides, Methodology, Neurocndocrines, Rats.

14663-69
METHYL BROMIDE CAN BE DANGEROUS.
G R Simpson
Agr Gaz New S Wales 78(PT 2):113-117
Feb 1967 23 N472
Accidents, Fumigants, Insecticides, Methyl bromide, Toxicology.

14664-69
AN INTERACTION OF DIELDRIN WITH THIAMINE.
I J Tinsley
Soc Exp Biol Med Proc 129(2):463-465
Nov 1968 442.9 SO1
Dieldrin, Nutrition, Physiology, Rats, Thiamine.

14665-69
FUNGITOXIC ACTION OF HIGHER ALKYL COMPOUNDS. I. MECHANISM OF FUNGITOXIC ACTION OF ALKYLPHENOLS.
Y Uesugi K Fukunaga
Phytopathol Soc Jap Ann 33(3):168-175 REF
Jun 1967 464.9 P562
Adsorption, Blast, Cells, Fungi, Fungicides, Glucose, Glutamate, Ninhydrin reaction, Organic compounds, Pentachlorophenol, Phenols, Piricularia oryzae, Plant physiology, Plant translocation, Rice, Toxicology. Abstract in Japanese

PLANT PHYSIOLOGY & BIOCHEMISTRY

14666-69
THE RESPIRATION AND FLOWER DEVELOPMENT OF EVERGREEN AZALEAS AS INFLUENCED BY GIBBERELLIN, SCALE REMOVAL, AND 2,4-DINITROPHENOL.
D J Ballantyne
Can J Bot 46(2):165-168 REF
Feb 1968 470 C16C
Azalea, Biochemistry, Dinitrophenol, 2,4-, Flowers, Gibberellins, Ornamental trees, Plant morphology, Plant respiration.

14667-69
THE SEPARATION OF THE PROTEINS OF WHEAT BY ACRYLAMIDE GEL ELECTROPHORESIS, WITH SPECIAL REFERENCE TO MOTTLED AND UNMOTTLED WHEAT.
J T Barber H L Wood F C Steward
Can J Bot 45(1):5-19 REF
Jan 1967 470 C16C
Acrylamide, Biochemistry, Electrophoresis, Gels, Mottle, Plant physiology, Proteins, Wheat.

14668-69
EFFECT OF PHYTOTOXINS FROM THE DECOMPOSITION OF ORGANIC MATTER UPON PEANUT SEEDLING EMERGENCE. (ABSTRACT).
H W Boyd
Phytopathology 58(6):726
Jun 1968 464.8 P56
Corn, Greenhouse culture, Peanuts, Plant physiology, Plant residues, Seedlings, Soil amendments, Toxins.

14669-69
BLUE LIGHT PROMOTES SYMPTOM FORMATION AND VIRUS MULTIPLICATION IN PLANTS.
R Casper
Virology 34(1):179-181
Jan 1968 448.8 V81
Lighting, Metabolism, Plant physiology, Tobacco, Virus diseases (plants).

14670-69
RELATIONSHIP BETWEEN THE NUMBER OF SUCKERS (TILLERS) AND THE NUMBER OF ADVENTIDIOUS ROOTS DURING THE DEVELOPMENTAL CYCLE OF HARD CORN SENSITIVE TO RADIAL TIPPING AND A REPORT CONCERNING THE TREATMENT WITH AUXIN, GIBBERELLIN, ACTIVATORS AND GROWTH INHIBITORS OF THE CCC TYPE. (FR)
H Chlyah
Acad Sci Compt Rend Ser D Sci Nat 266(16, 1ST SEMESTER):1662-1664
17 Apr 1968 505 P21
Chloroethyl)trimethylammonium chloride, (2-, Corn, Gibberellins, Plant growth inhibitors, Plant physiology, Plant regulators.

14671-69
MYCOBACTERIUM TUBERCULOSIS IN MACROPHAGES: EFFECT OF CERTAIN SURFACTANTS AND OTHER MEMBRANE-ACTIVE COMPOUNDS.
P D'arcy Hart
Science 162(3854):686-689 REF
08 Nov 1968 470 SCI2
Biochemistry, Cells, Culture media, Macrophages, Permeability, Physiology, Surface-active agents, Tuberculosis.

14672-69
EFFECT OF D-GALALTOSE ON THE ULTRASTRUCTURE OF BENTGRASS ROOT APICES.
R M Endo W W Thomson E M Krausman
Can J Bot 46(4):391-395 REF
Apr 1968 470 C16C
Agrostis, Biochemistry, Cells, Galactose, Plant anatomy, Plant growth inhibitors, Plant morphology, Research, Roots.

14673-69
HORMONES FROM THE FLY AGARIC (AMANITA). (GE)
C H Eugster
Naturwissenschaften 55(7):305-313 REF
Jul 1968 474 N213
Amanita muscaria, Choline, Hormones, Muscarine.

14674-69
SOME RESULTS FROM ALLIUM TESTS WITH ORGANIC MERCURY HALOGENIDES.
G Fiskesjo
Hereditas 62(3):314-322
1969 442.8 H42
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D S Frear
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08 Nov 1968 470 SCI2
Adenine nucleotides, Biochemistry, Cotton, Enzymes, Herbicides, Leaves, Monuron, Nicotinamide, Oxidases, Plant physiology.

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J G Hancock M E Stanghellini
Can J Bot 46(4):405-409 REF
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IS IT POSSIBLE TO DRAW ANY CONCLUSIONS FROM THE RED EPIDEMIC OF 1967, IN REGARD TO THE APPEARANCE OF THE DISEASE DURING THIS YEAR . (GE)
J Henner
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14679-69
THE FINE STRUCTURE OF HYPHAE OF HELMINTHOSPORIUM ORYZAE ITO ET KURIB. AND PYRICULARIA ORYZAE CAVARA. (JA)
O Horino S Akai

Phytopathol Soc Jap Ann 34(1):36-39 REF
Jan 1968 464.9 P562
Cell nucleus, Cell wall, Cytoplasm, Electron microscopy, Fungi, Helminthosporium oryzae, Hyphae, Lipids, Microbiology, Mitochondria, Plant cytology, Plant diseases, Plant physiology, Pyricularia oryzae. Abstract in English

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H Linser
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W E McKeen N Mitchell R Smith
Can J Bot 45(9):1489-1496 REF
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Biochemistry, Cell nucleus, Erysiphe cichoracearum, Plant physiology.

14683-69
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A L McMurray C H Miller
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20 Dec 1968 470 SCI2
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D Mitchell M Shaw
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Apr 1968 470 C16C
Biochemistry, Carbon isotopes, Fungi, Glucose compounds, Mannitol, Melampsora lini, Metabolism, Plant physiology, Pyruvic acid.

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NUCLEUS OF FUSION BODY AND INFECTION STRUCTURE PRODUCED BY UREDOSPORES OF THREE RUST FUNGI. (JA)
N Naito T Onoe
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Mar 1968 464.9 P562
Cell nucleus, Cells, Fungus diseases (plants), Microbiology, Mycology, Plant morphology, Plant physiology, Puccinia coronata, Uredinales, Uromyces. Summary in English

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J V Parochetti G F Warren
Weed Soc Amer Abstr 1967 MEETING:73-74
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R Salema
Can J Bot 45(9):1469-1471
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H Seltmann G F Pecdin
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14689-69
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H C Sikka D Pramer
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Algae, Chlorella, Dimethyl-3-(alpha,alpha,alpha-m-tolyl)urea, 1,1-, Euglena gracilis, Herbicides, Photosynthesis, Plant physiology, Plant respiration.

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PHYSIOLOGICAL EFFECTS OF PENTACHLOROBENZYLALCOHOL ON RICE PLANTS. (JA)
H Sumi Y Takahi K Nakagami Y Kondo
Phytopathol Soc Jap Ann 33(3):150-155 REF
Jun 1967 464.9 P562
Blast, Carbohydrates, Culture media, Fungicides, Nitrogen, Pentachlorobenzyl alcohol, Piricularia oryzae, Plant biochemistry, Plant physiology, Rice, Spraying. Abstract in English

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Blast, Chemical control (plant diseases), Fungicides, Greenhouse culture, Leaves, Pentachlorobenzyl alcohol, Piricularia oryzae, Plant biochemistry, Plant growth inhibitors, Plant physiology, Plant reproduction, Rice, Seedlings, Spraying, Temperature. Abstract in English

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H Sumi Y Takahi Y Kondo K Nakagami
Phytopathol Soc Jap Ann 34(2):114-121
Mar 1968 464.9 P562
Blast, Chemical control (plant diseases), Dosage, Fungicides, Greenhouse culture, Pentachlorobenzyl alcohol, Phenylmercuric acetate, Plant biochemistry, Rice, Spraying, Toxicology. Abstract in English.

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K Tatsuyama
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Jun 1967 464.9 P562
Algae, Cells, Chemurgy, Chlorella, Color, Dosage, Pesticides, Pigments (plant), Plant biochemistry, Plant physiology.

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V L Vinze G R Ambekar V M Doctor
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Biochemistry, Chemicals, Economics, Oils, Pesticides, Spraying, Toxicology, Volumetric analysis.

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A R Main
Fed Amer Soc Exp Biol Fed Proc 27(2):590
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Acetaldehyde, Chemical analysis, Chemical structure, Chlorinated hydrocarbons, Chromatography, DDT, Mass spectra, Metabolites, Synthesis.

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Z Rehacek S Svarc
Chem Indus (44):1523
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Antibiotics, Chemical reactions, Chromatography, Formylamino)-salicyclic acid, 3-(N-, Metabolites, Salicylic acid, Spectrochemistry, Streptomycin.

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J Appl Chem USSR 41(6):1329-1331
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Anonymous
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H Drees
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Mar 1968 464.8 G33
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C Holmberg
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Agricultural regulation, Plant disease control, Potatoes, Wart. German summary

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Systemic activity of zectran, matacil and bidrin injected into conifer trunks. 14656

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